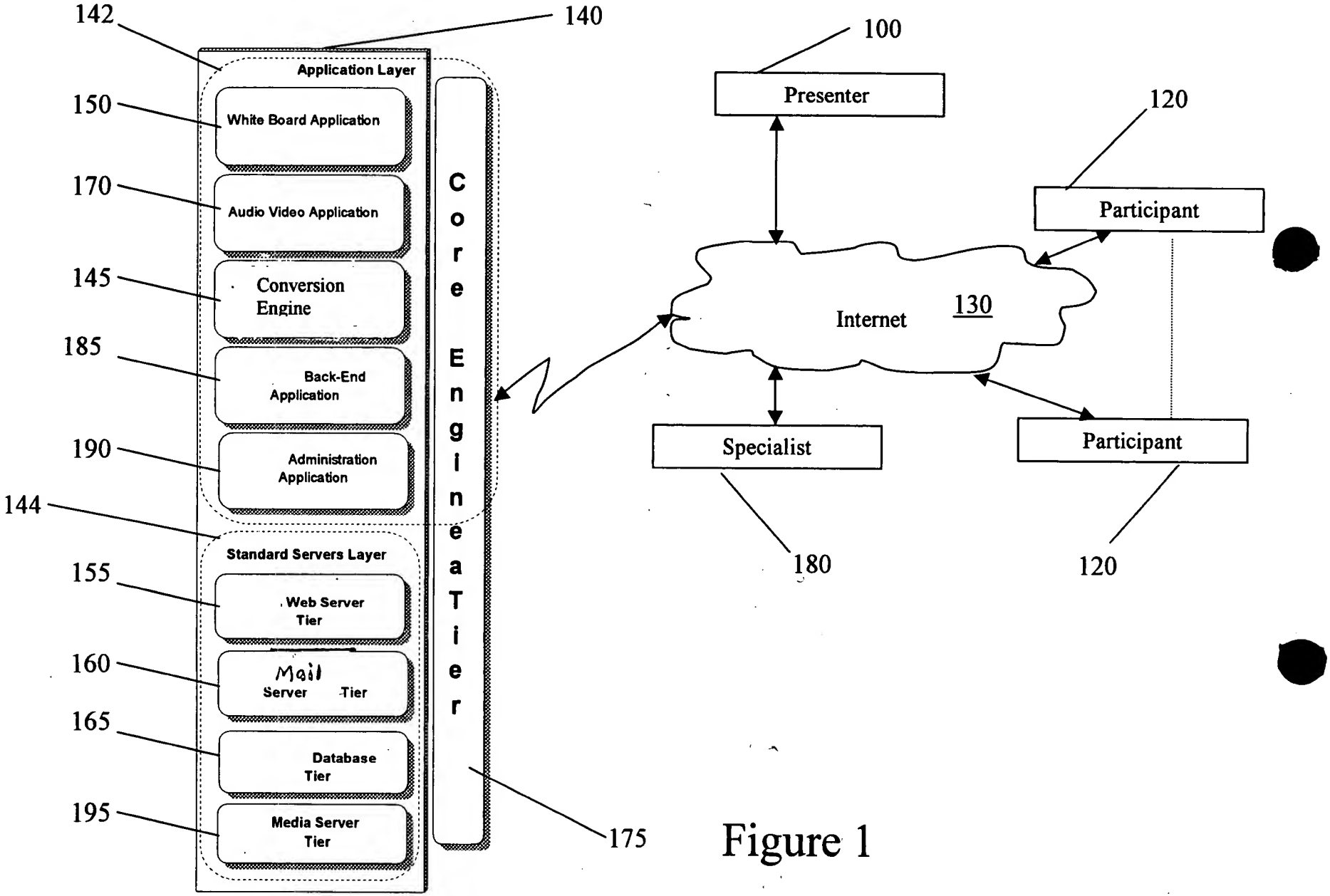
142
140
100
Application Layer
150
White Board Application
170
Audio Video Application
145
Conversion Engine
185
Back-End Application
190
Administration Application
144
Standard Servers Layer
155
Web Server Tier
160
Mail Server Tier
165
Database Tier
195
Media Server Tier
Core Engine Tier
175
Presenter
120
Participant
Internet
130
Specialist
Participant
180
120

Figure 1

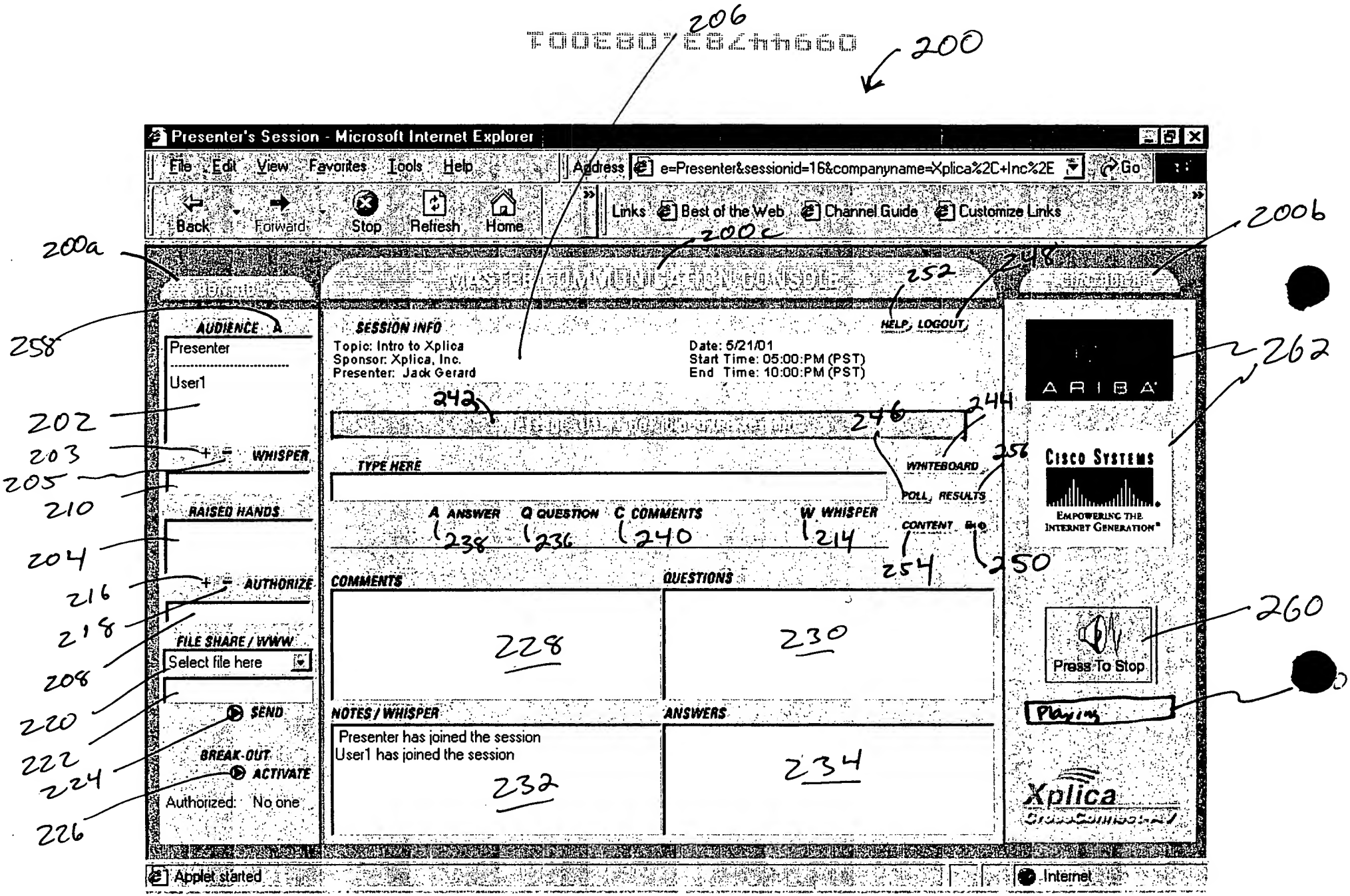
206
200
Presenter's Session - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address e=Presenter&sessionid=16&companyname=Xplica%2C+Inc%2E
Go
Back Forward Stop Refresh Home
Links Best of the Web Channel Guide Customize Links
200a
200c
200b
AUDIENCE
Presenter
User1
WHISPER
RAISED HANDS
AUTHORIZE
FILE SHARE / WWW
Select file here
SEND
BREAK-OUT
ACTIVATE
Authorized: No one
SESSION INFO
Topic: Intro to Xplica
Sponsor: Xplica, Inc.
Presenter: Jack Gerard
Date: 5/21/01
Start Time: 05:00:PM (PST)
End Time: 10:00:PM (PST)
HELP LOGOUT
252
248
242
246
244
TYPE HERE
WHITEBOARD
POLL RESULTS
256
A ANSWER
Q QUESTION
C COMMENTS
W WHISPER
238
236
240
214
CONTENT
254
250
COMMENTS
QUESTIONS
228
230
NOTES / WHISPER
ANSWERS
Presenter has joined the session
User1 has joined the session
232
234
ARIBA
262
Cisco Systems
Empowering the Internet Generation
Press To Stop
260
Playing
Xplica
Applet started
Internet
202
203
205
210
204
216
218
208
220
222
224
226
258

Fig 2

TOOE80 EB2in60

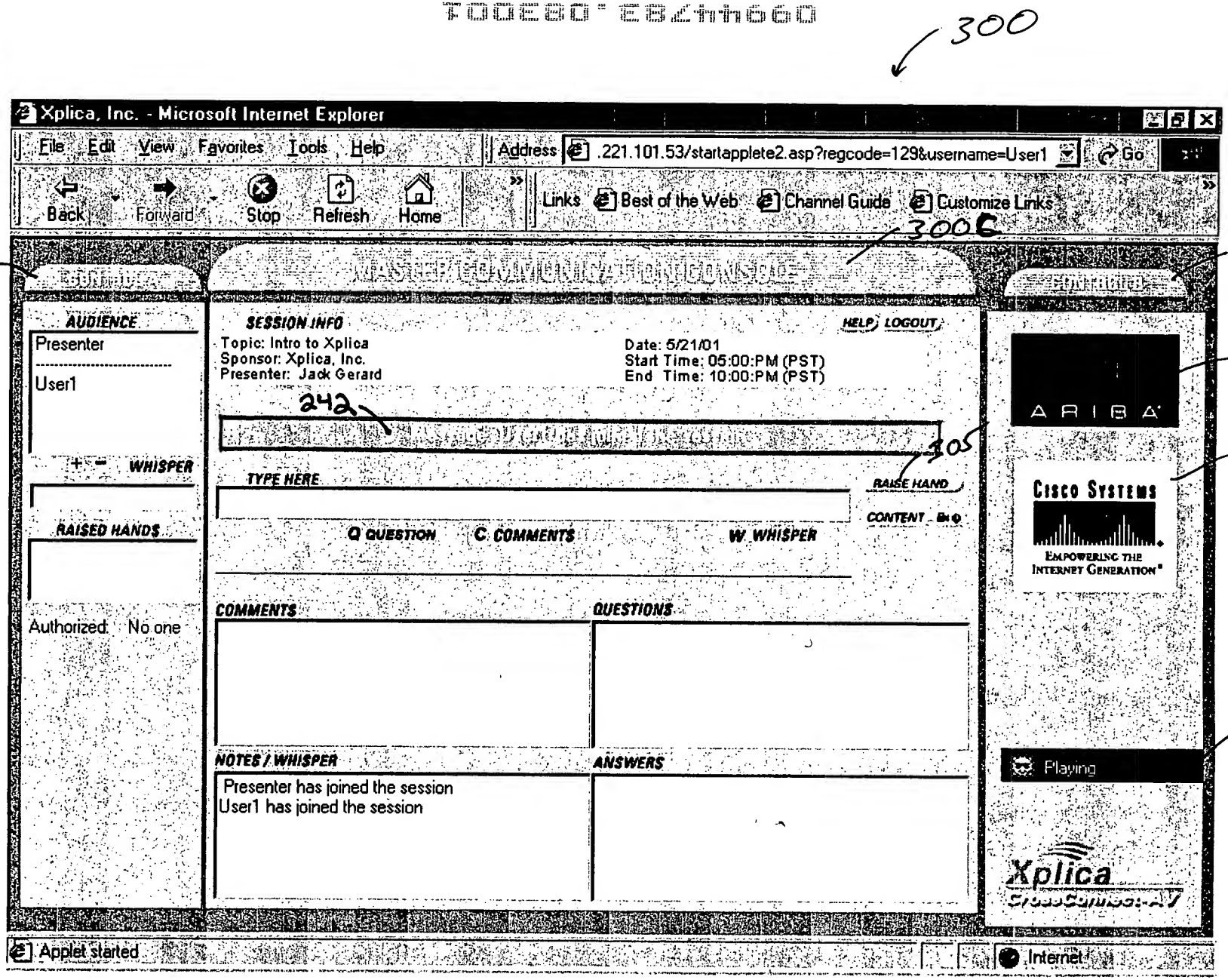

Fig 3

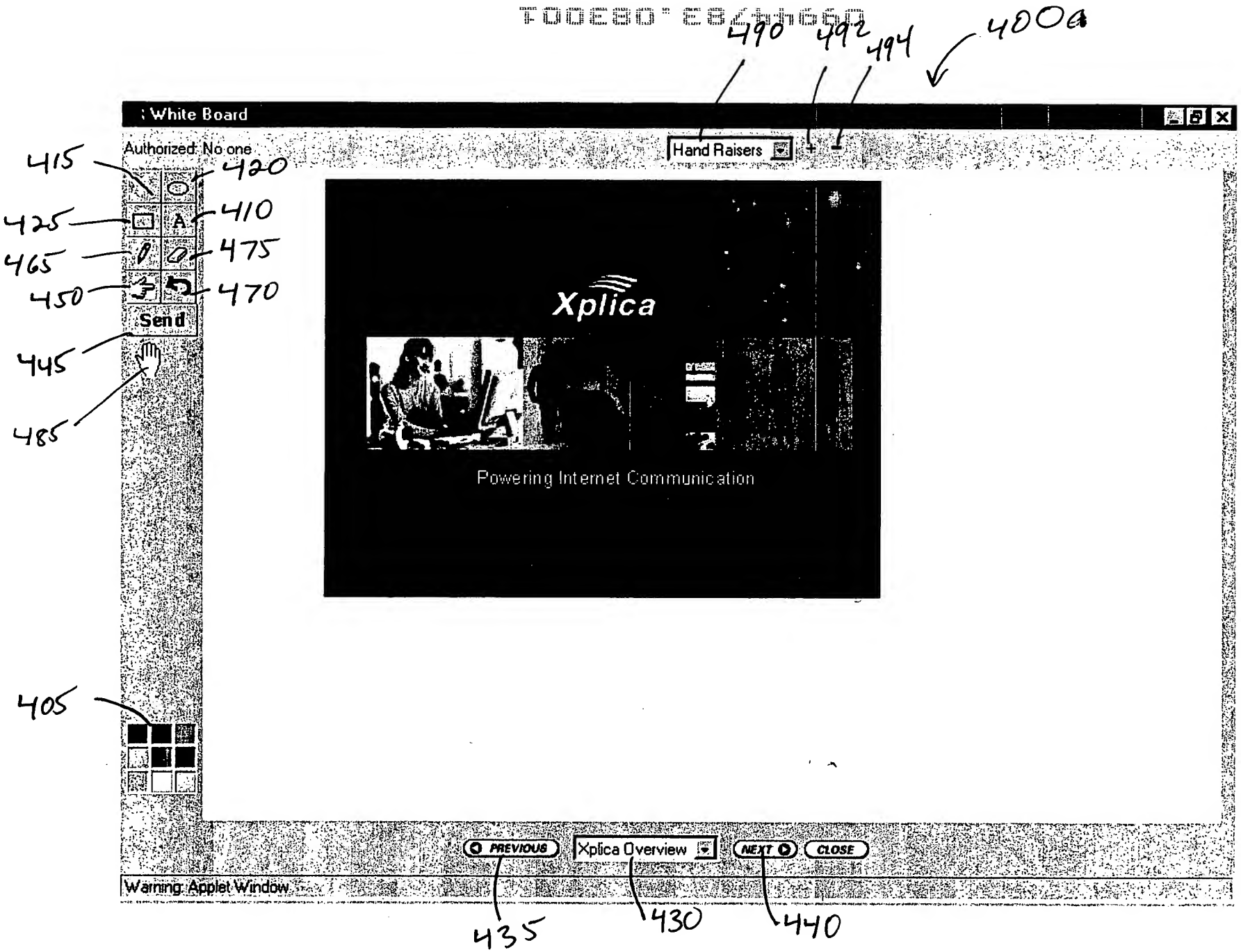
400a
490
492
494
White Board
Authorized: No one
Hand Raisers
415
420
425
410
465
475
450
470
Send
445
485
405
Xplica
Powering Internet Communication
PREVIOUS
Xplica Overview
NEXT
CLOSE
Warning: Applet Window
435
430
440

Fig 4a

TOCE30 E3Z4th660

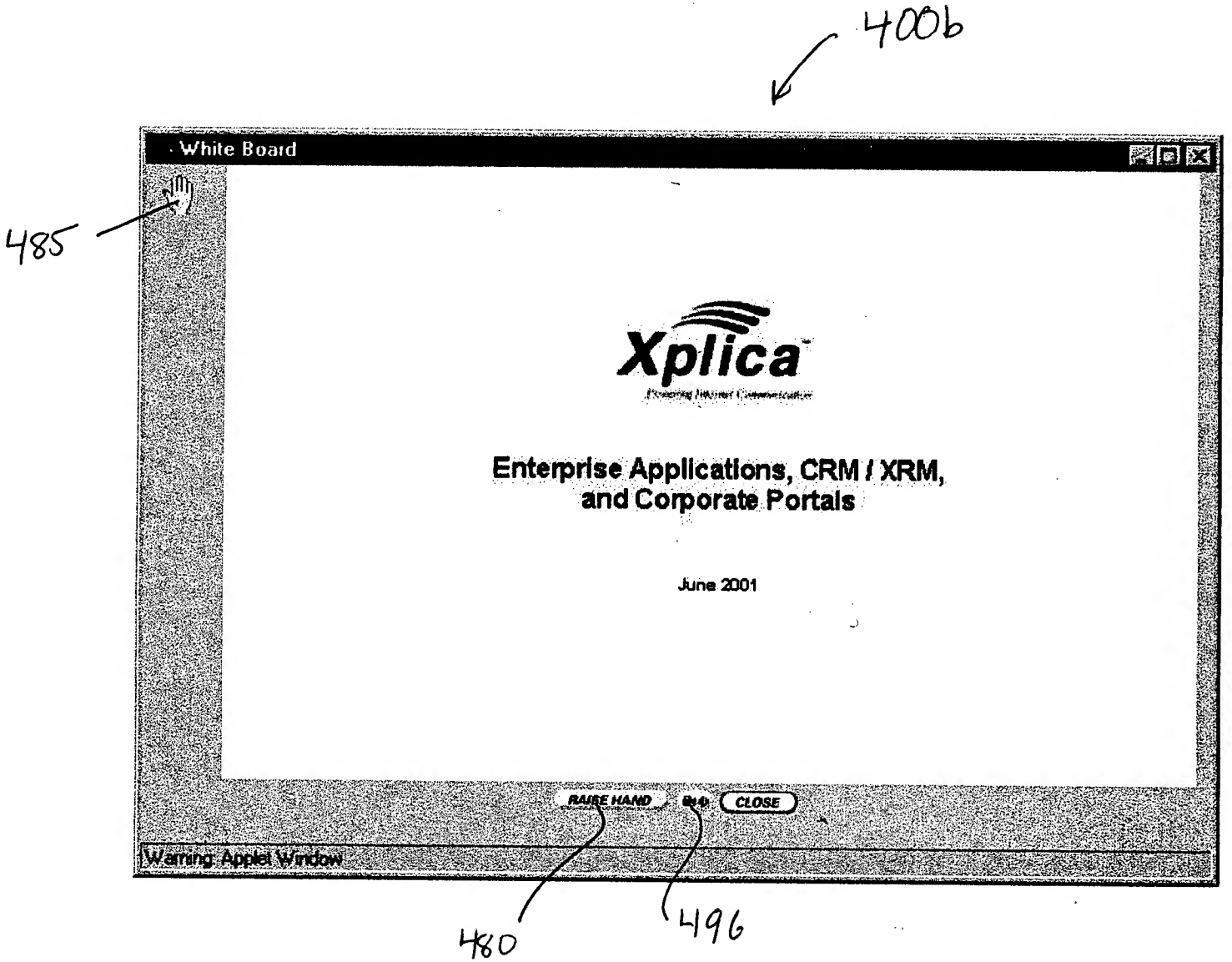

Figure 4b

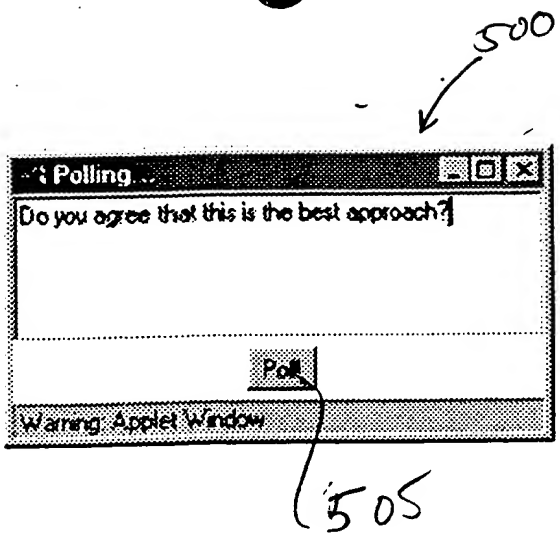

Figure 5a

FOOTER - 20 - 2178650

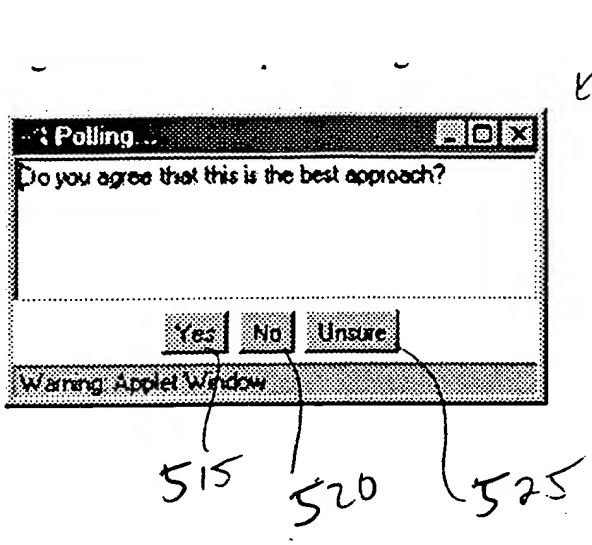

Figure 5b

FOSS.80 : 2647.650

TOOE80 E82hh60

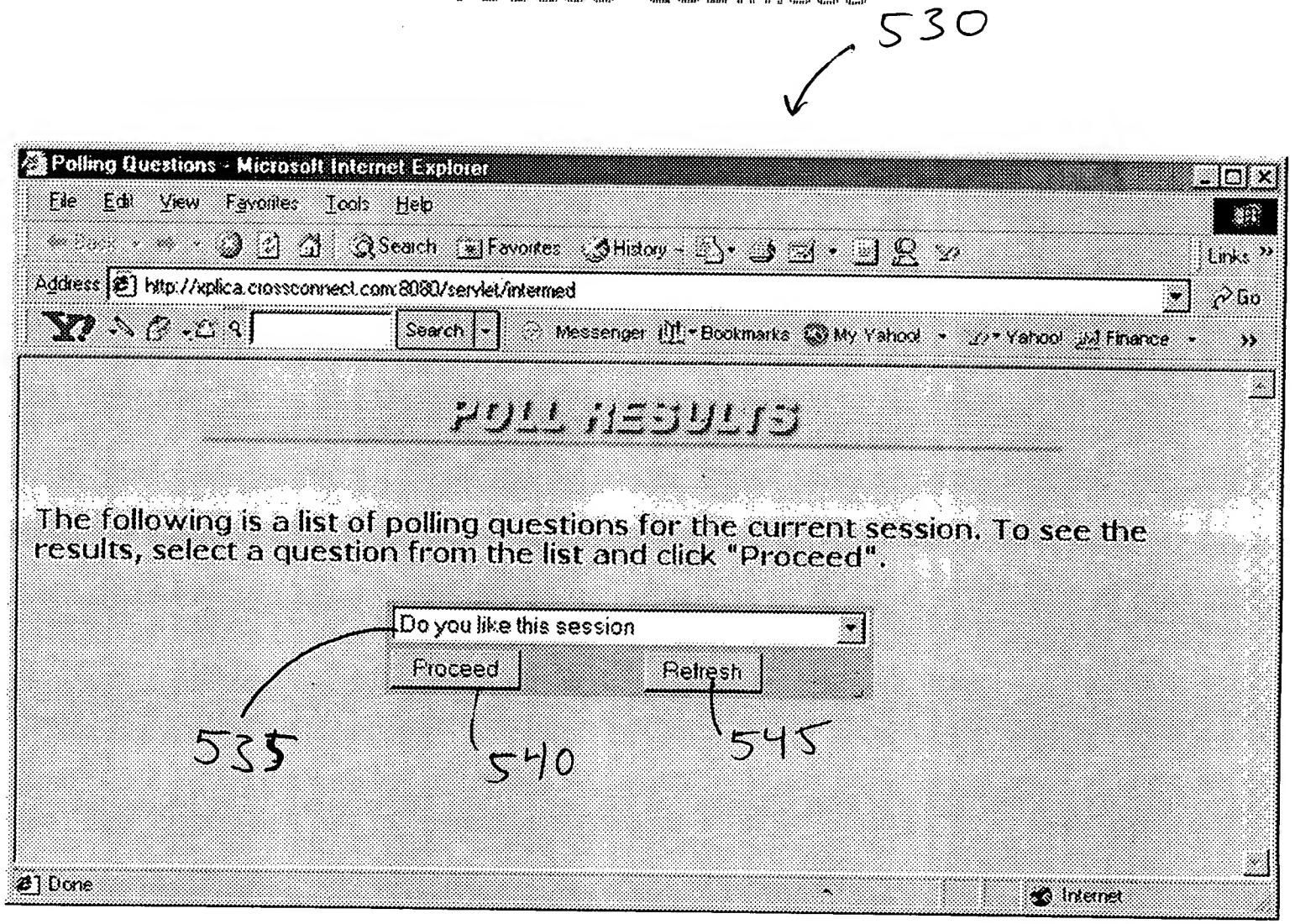

Figure 5c

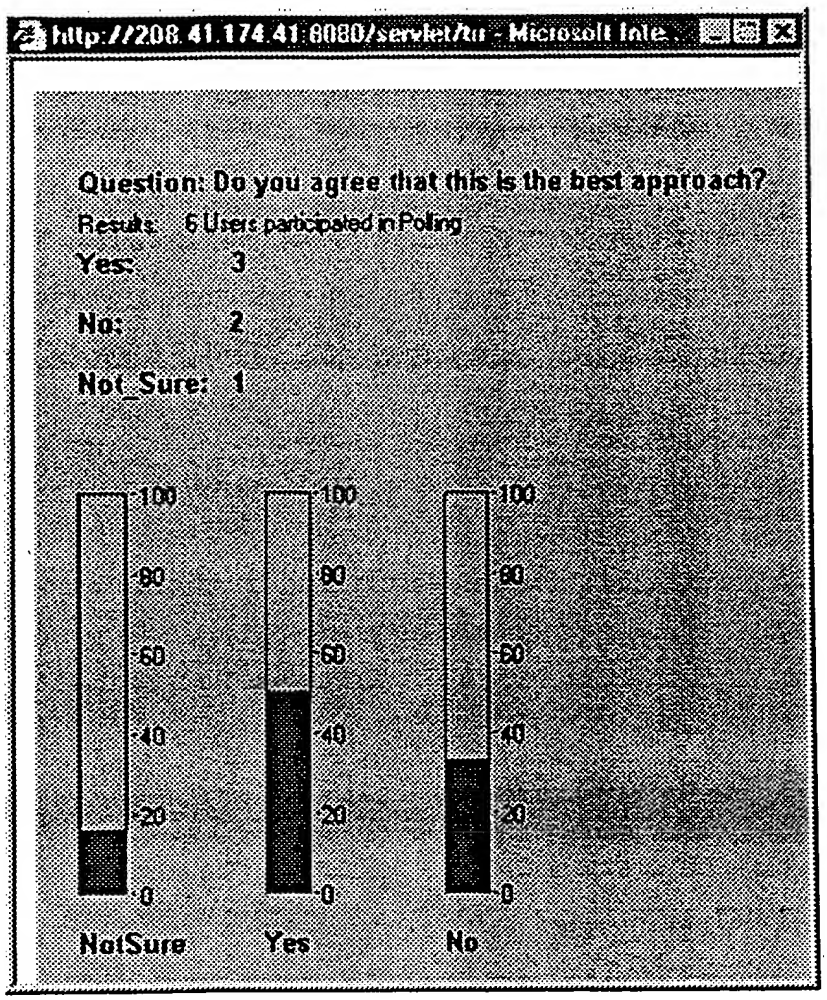
http://208.41.174.41:8080/servlet/to - Microsoft Inte...
Question: Do you agree that this is the best approach?
Results: 6 Users participated in Poling
Yes: 3
No: 2
Not_Sure: 1
100
80
60
40
20
0
NotSure
Yes
No

Fig. 5d

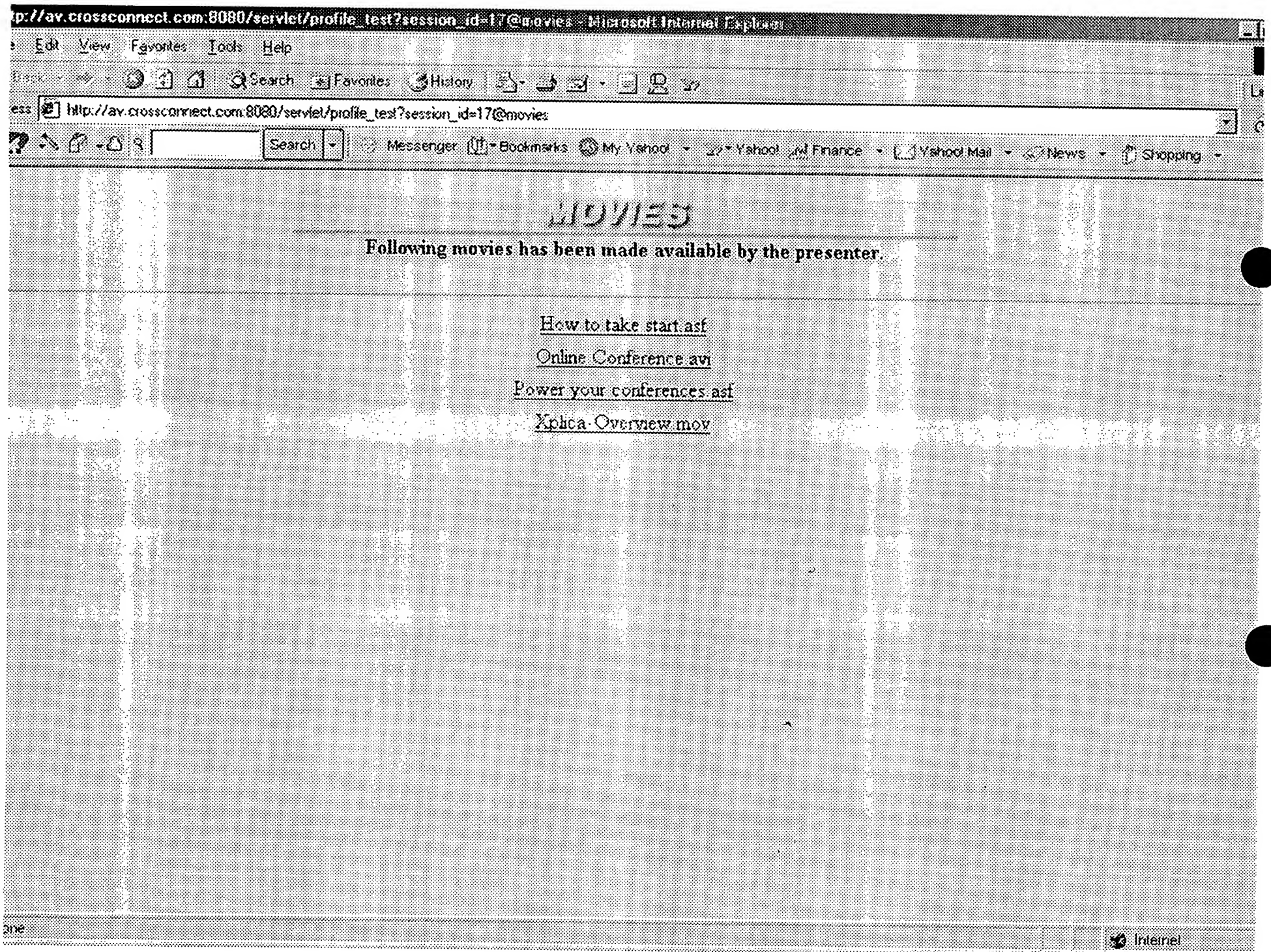
http://av.crossconnect.com:8080/servlet/profile_test?session_id=17@movies - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Search Favorites History
Address http://av.crossconnect.com:8080/servlet/profile_test?session_id=17@movies
Search
Messenger Bookmarks My Yahoo! Yahoo! Finance Yahoo! Mail News Shopping
MOVIES
Following movies has been made available by the presenter.
How to take start.asf
Online Conference.avi
Power your conferences.asf
Xplica-Overview.mov
Internet

Figure 6

700

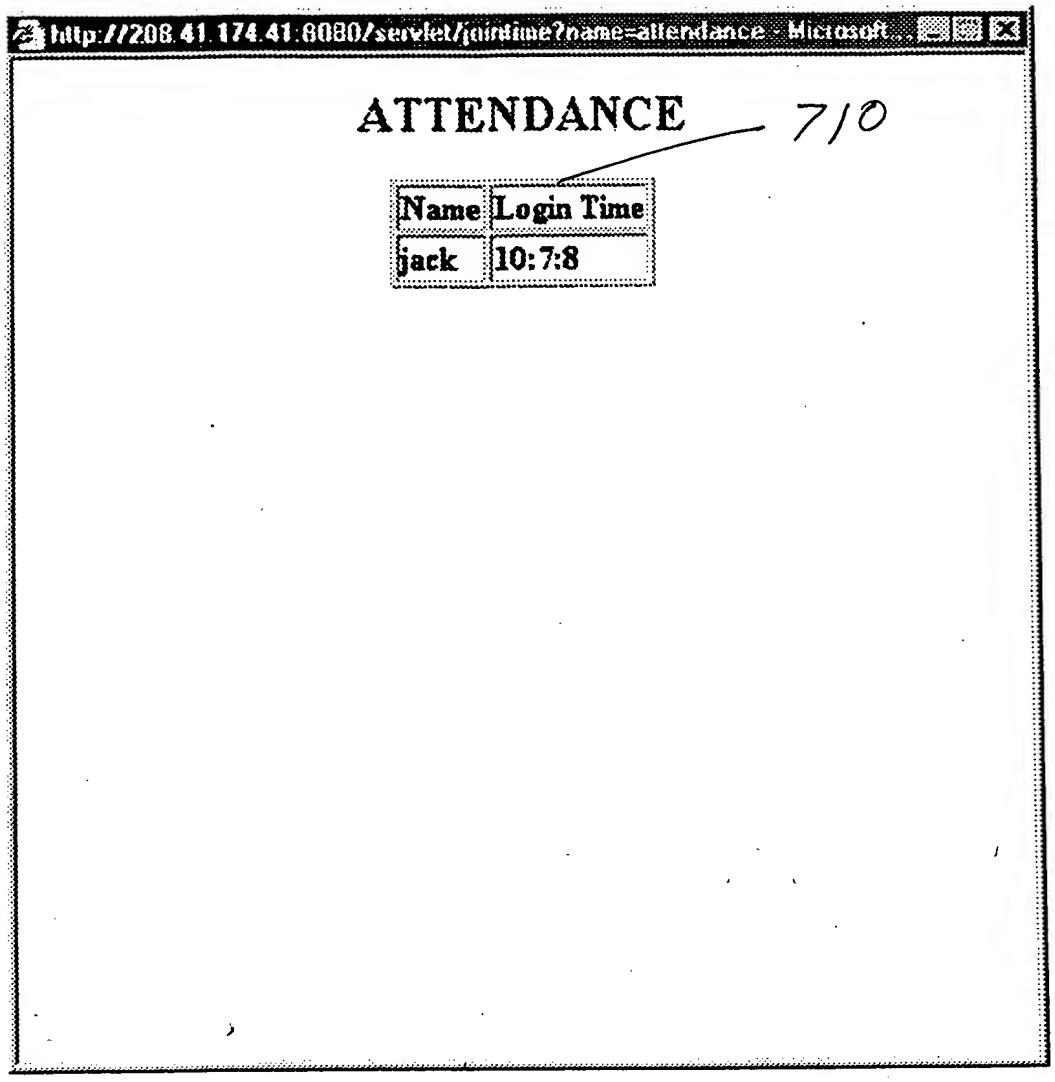
http://208.41.174.41:8080/servlet/jguntime?name=attendance - Microsoft
ATTENDANCE
710
Name
Login Time
jack
10:7:8

Fig. 7

TOOE80 EB2hh60

Homepage

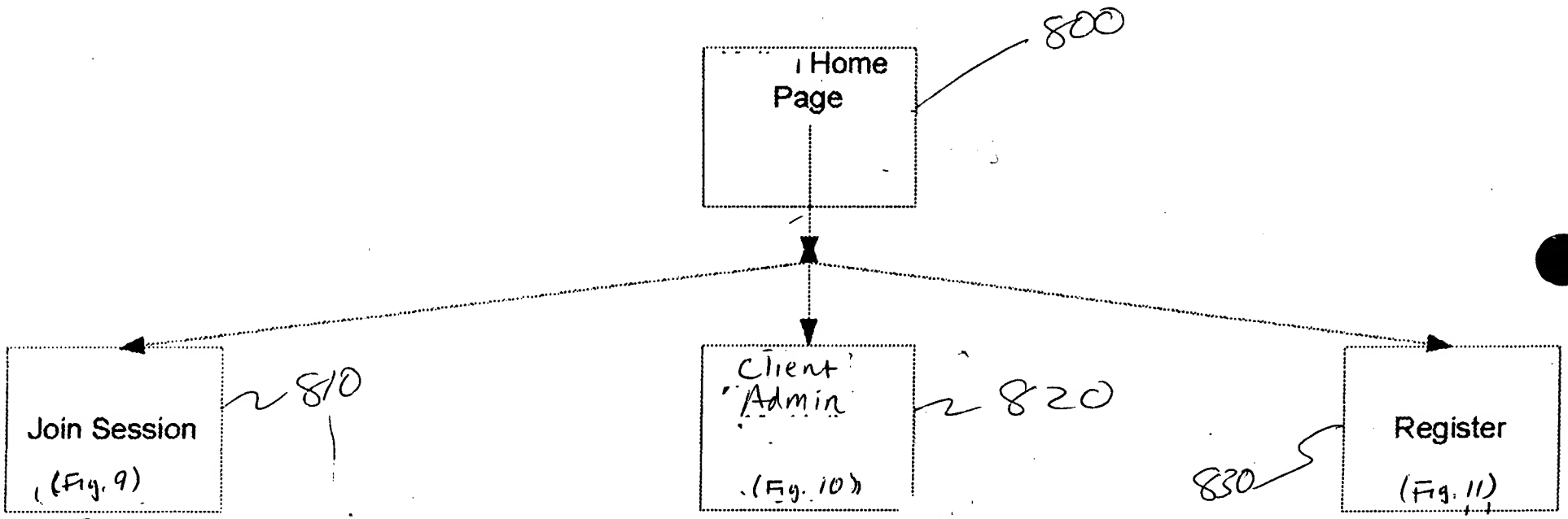

Fig. 8

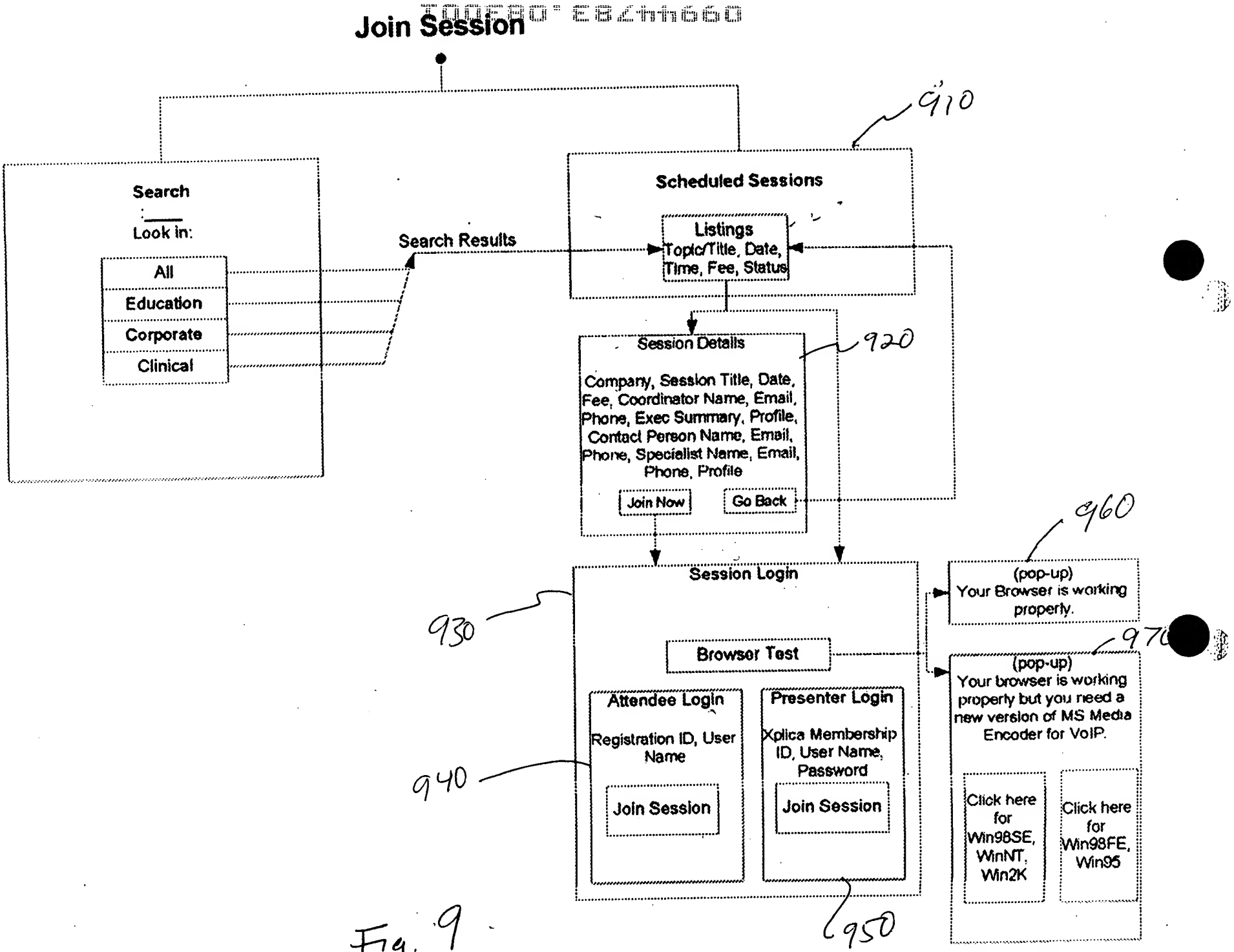
Join Session
910
Search
Look in:
All
Education
Corporate
Clinical
Search Results
Scheduled Sessions
Listings
Topic/Title, Date, Time, Fee, Status
Session Details
920
Company, Session Title, Date, Fee, Coordinator Name, Email, Phone, Exec Summary, Profile, Contact Person Name, Email, Phone, Specialist Name, Email, Phone, Profile
Join Now
Go Back
960
Session Login
930
(pop-up)
Your Browser is working properly.
970
Browser Test
(pop-up)
Your browser is working properly but you need a new version of MS Media Encoder for VoIP.
Attendee Login
Registration ID, User Name
940
Join Session
Presenter Login
Xplica Membership ID, User Name, Password
Join Session
Click here for Win98SE, WinNT, Win2K
Click here for Win98FE, Win95
950

Fig. 9

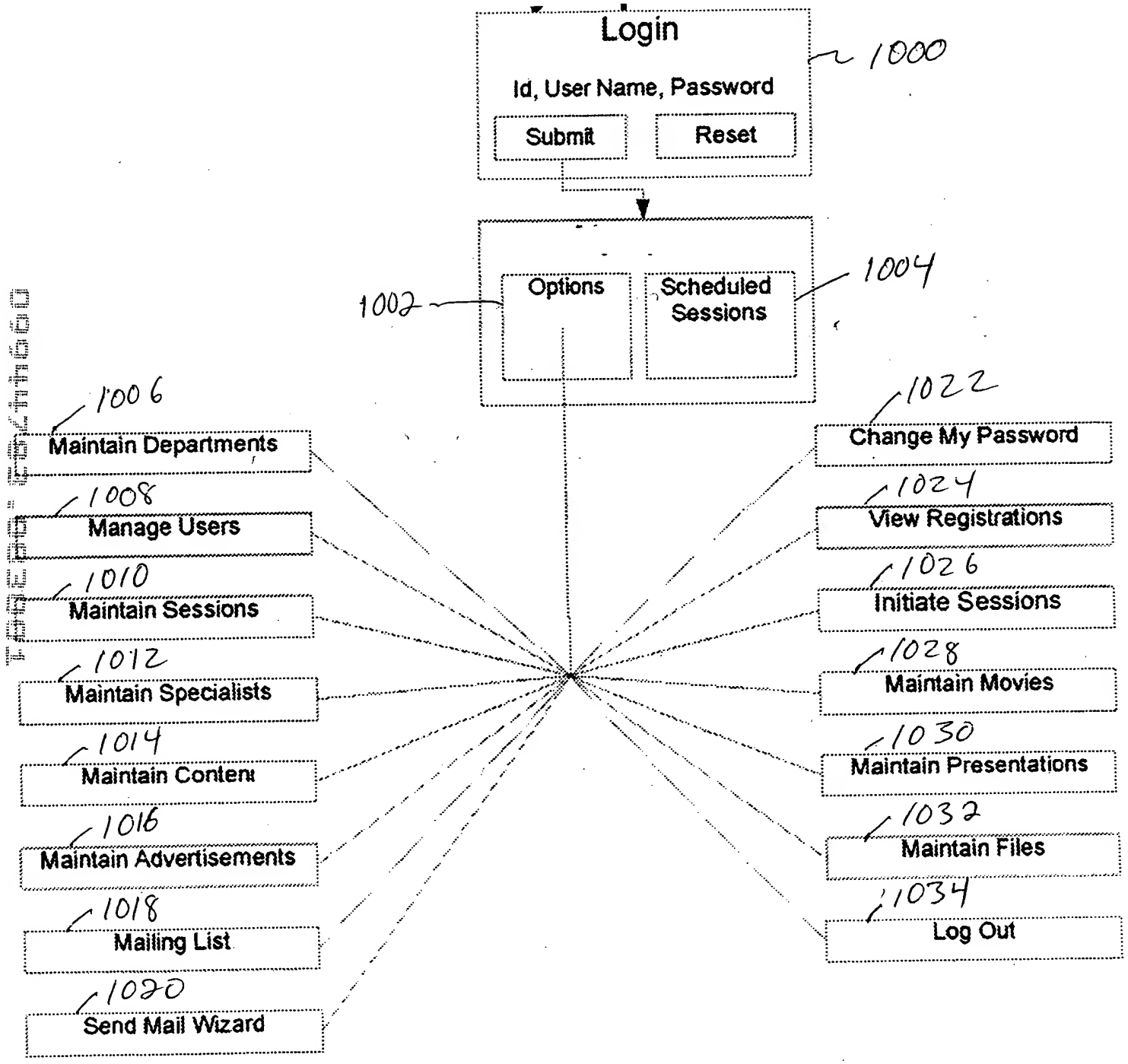
Login
Id, User Name, Password
Submit
Reset
1000
Options
Scheduled Sessions
1002
1004
1006
Maintain Departments
1008
Manage Users
1010
Maintain Sessions
1012
Maintain Specialists
1014
Maintain Content
1016
Maintain Advertisements
1018
Mailing List
1020
Send Mail Wizard
1022
Change My Password
1024
View Registrations
1026
Initiate Sessions
1028
Maintain Movies
1030
Maintain Presentations
1032
Maintain Files
1034
Log Out

Fig. 10-a

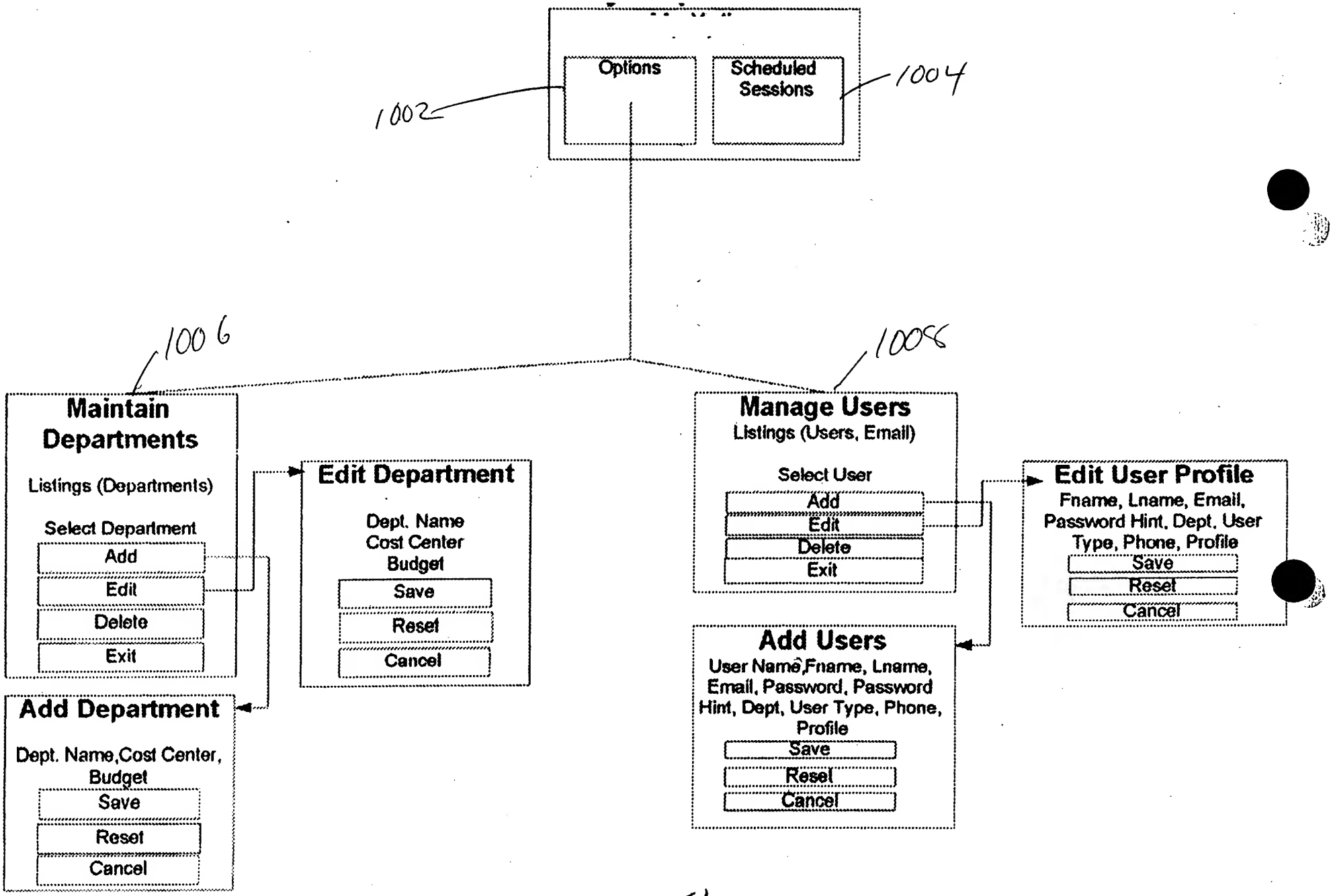
Options
Scheduled Sessions
1002
1004
1006
1008
Maintain Departments
Listings (Departments)
Select Department
Add
Edit
Delete
Exit
Edit Department
Dept. Name
Cost Center
Budget
Save
Reset
Cancel
Add Department
Dept. Name,Cost Center, Budget
Save
Reset
Cancel
Manage Users
Listings (Users, Email)
Select User
Add
Edit
Delete
Exit
Edit User Profile
Fname, Lname, Email, Password Hint, Dept, User Type, Phone, Profile
Save
Reset
Cancel
Add Users
User Name,Fname, Lname, Email, Password, Password Hint, Dept, User Type, Phone, Profile
Save
Reset
Cancel

Fig. 10b

T0DE80" E82hn660

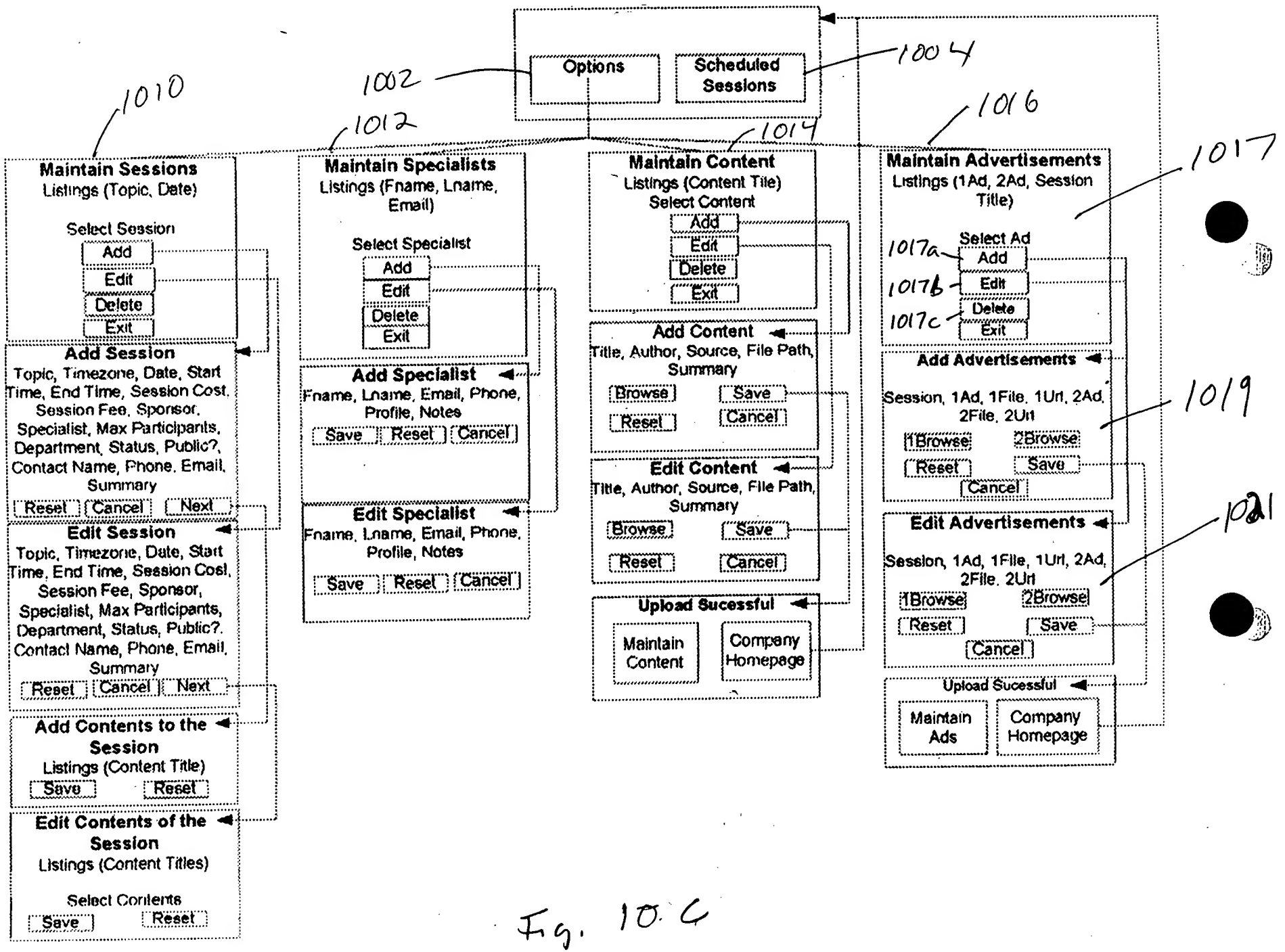

Fig. 10C

700630 "82460

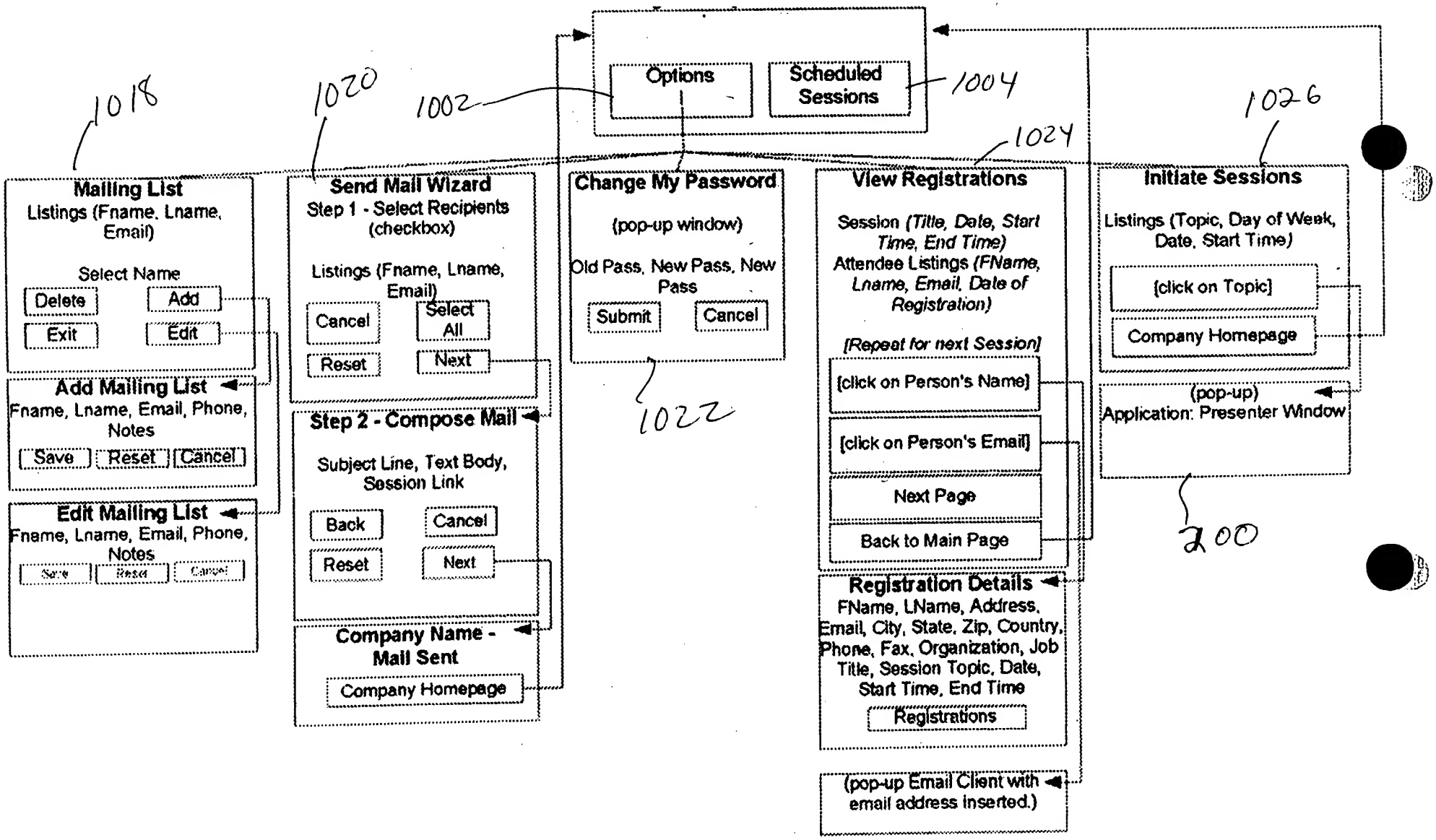

Fig. 10d

TOOE80 E824n660

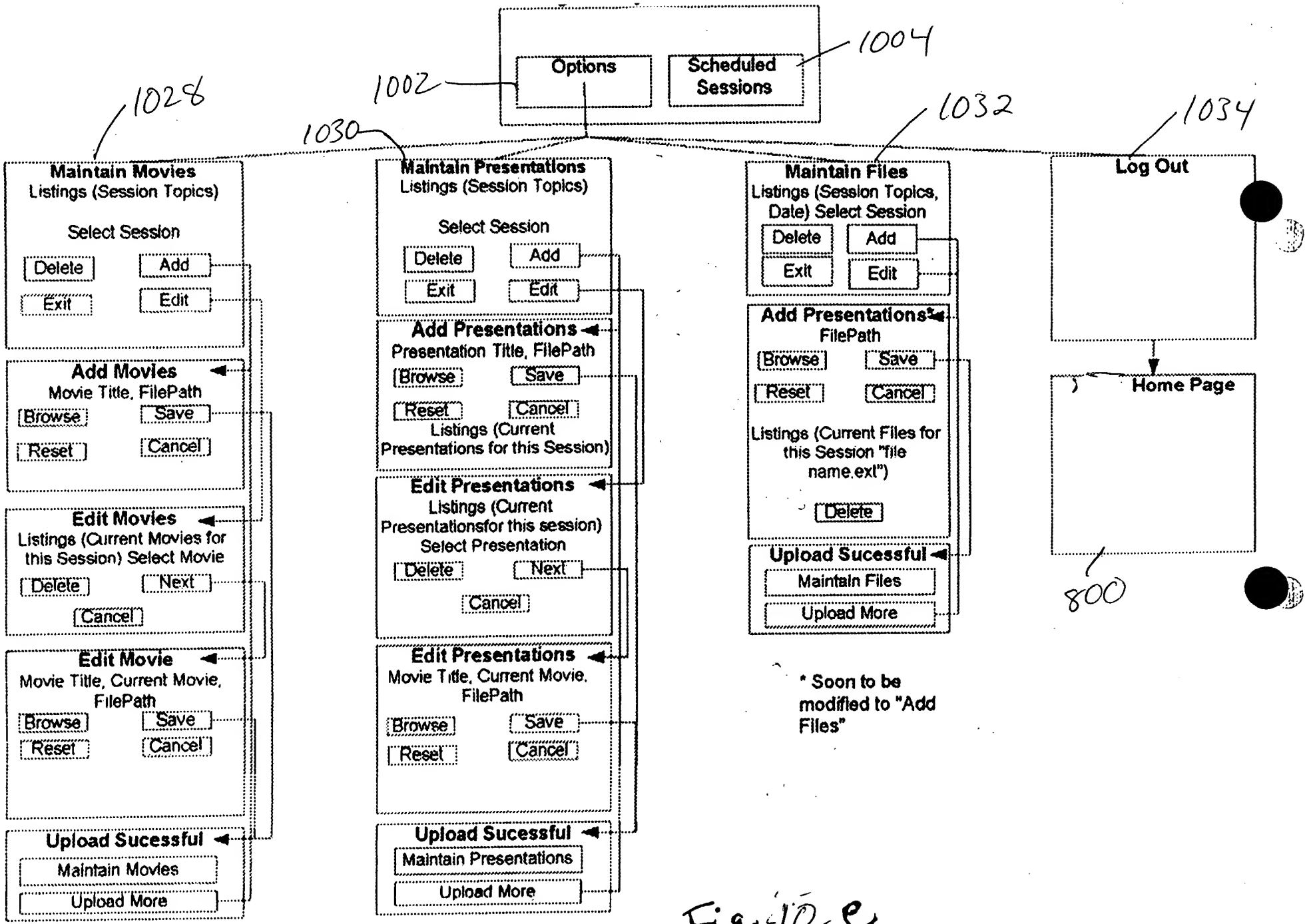

Fig. 10e

T0E80 E82m660

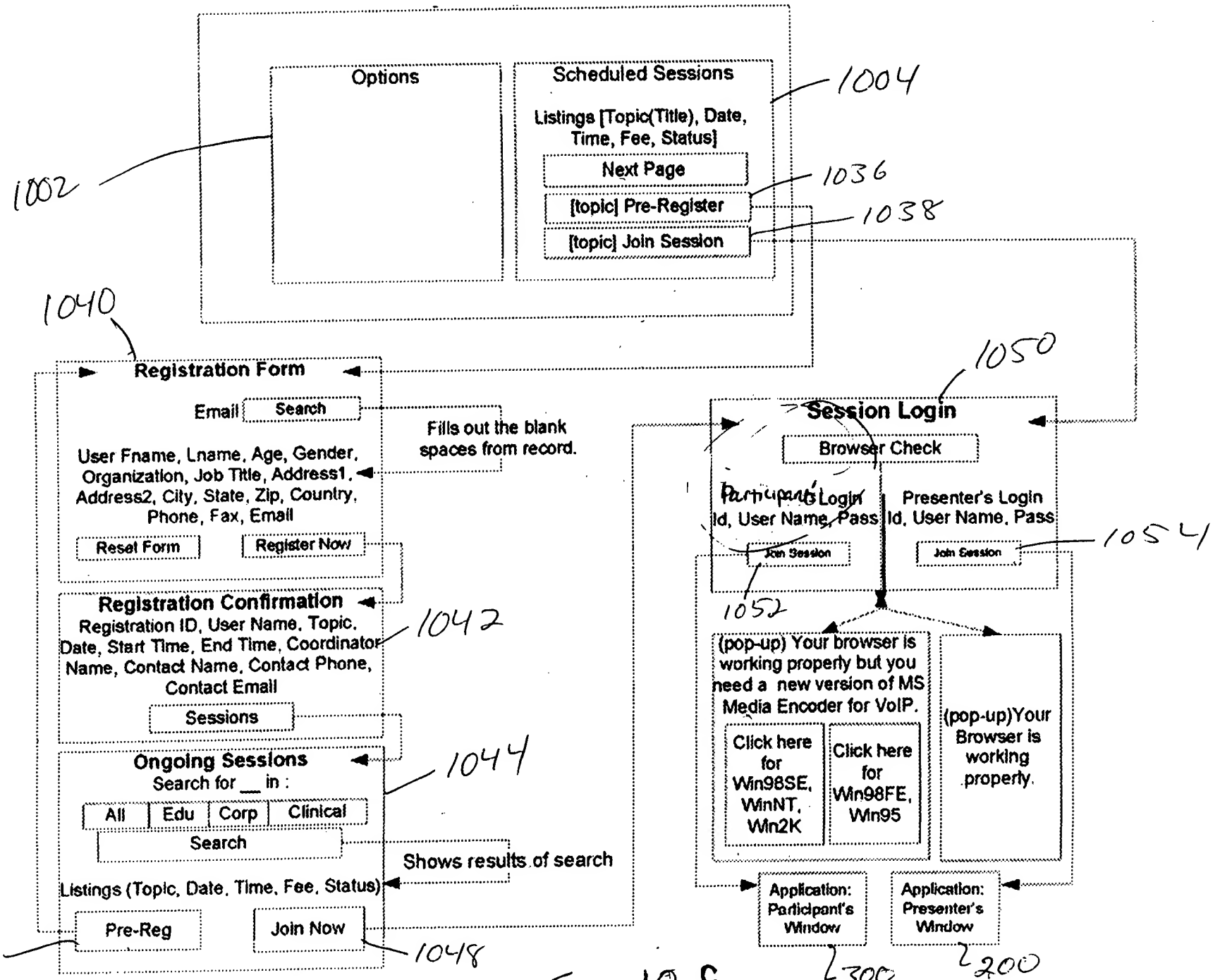

Fig. 10f

TOOF30 E82hh660

Register

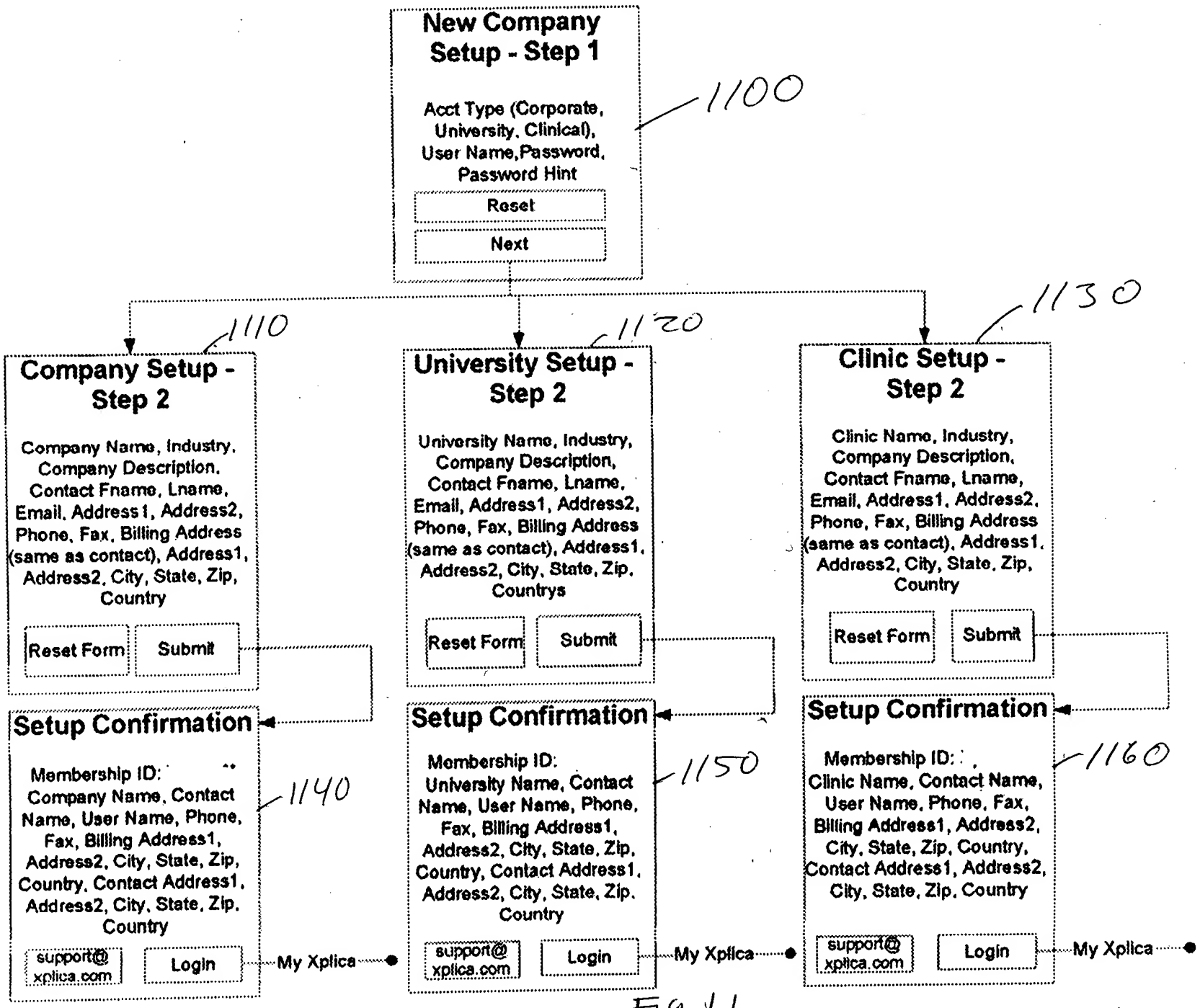

Fig 11

FOCEBO EBZhn660

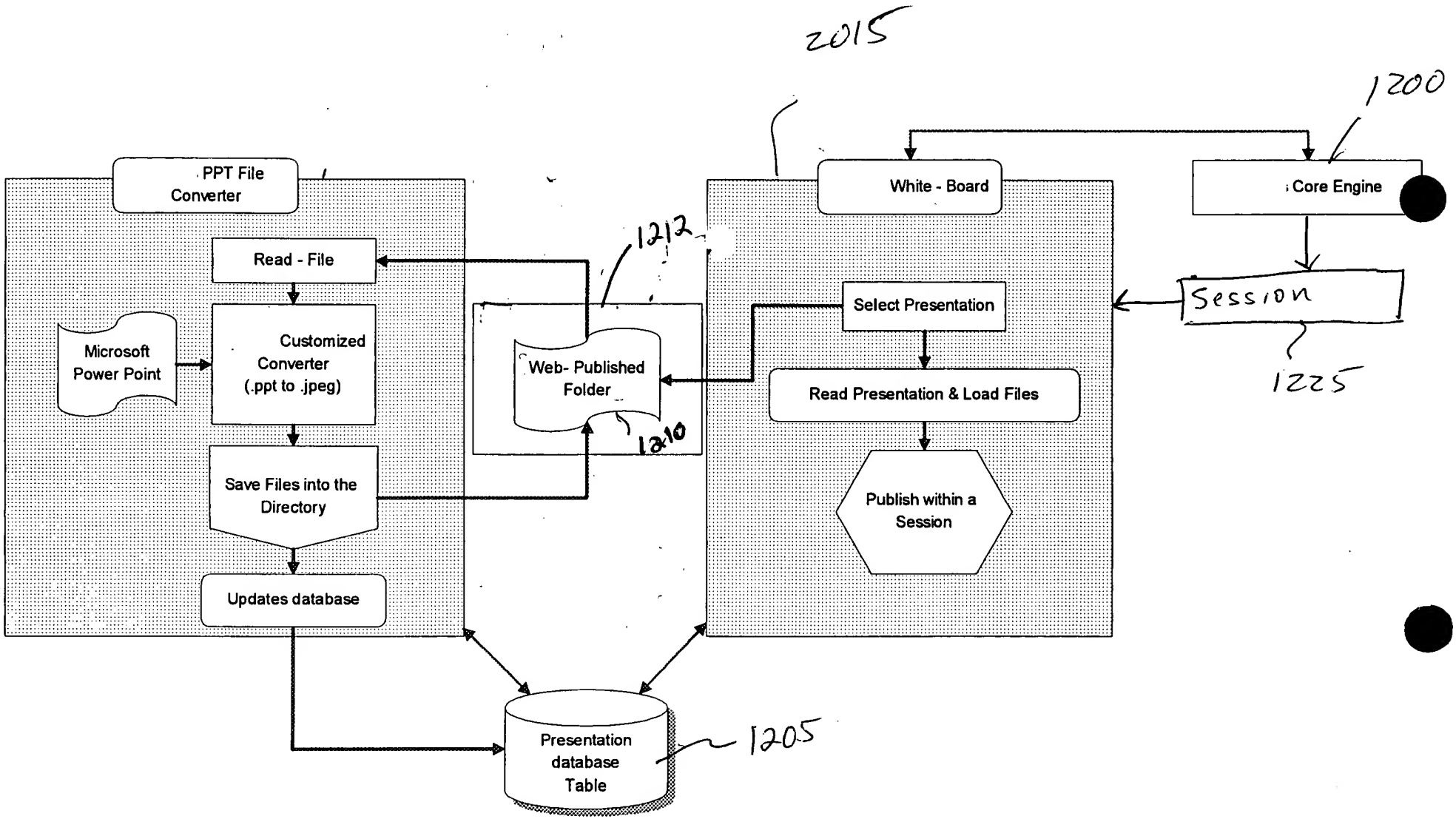

Figure 12

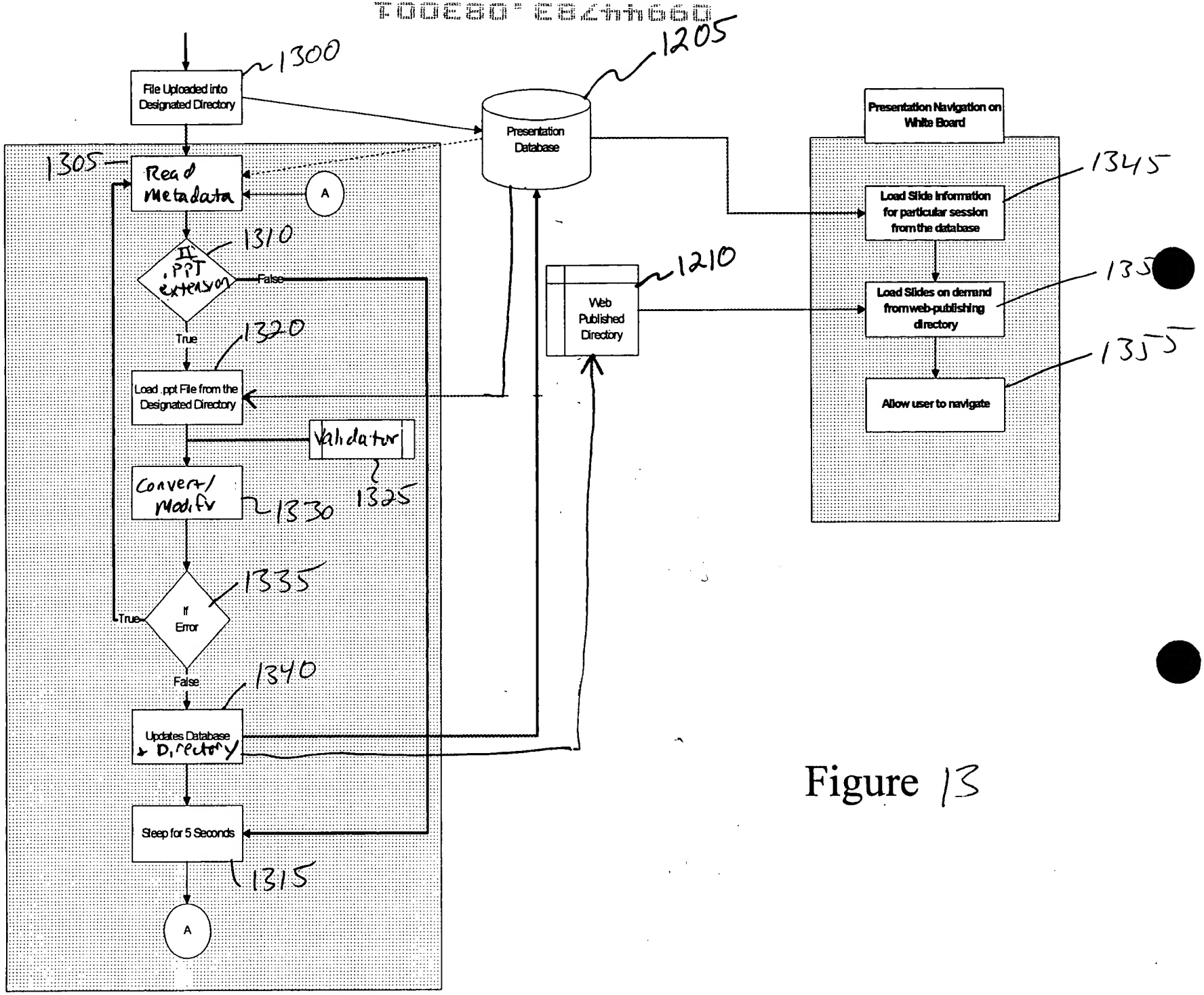
1300
File Uploaded into Designated Directory
1205
Presentation Database
Presentation Navigation on White Board
1305
Read Metadata
A
1345
Load Slide Information for particular session from the database
1310
If .PPT extension
False
1210
Web Published Directory
Load Slides on demand from web-publishing directory
True
1320
Load .ppt File from the Designated Directory
Validator
1325
Allow user to navigate
Convert/ Modify
1330
1335
If Error
True
False
1340
Updates Database & Directory
Sleep for 5 Seconds
1315
A

Figure 13

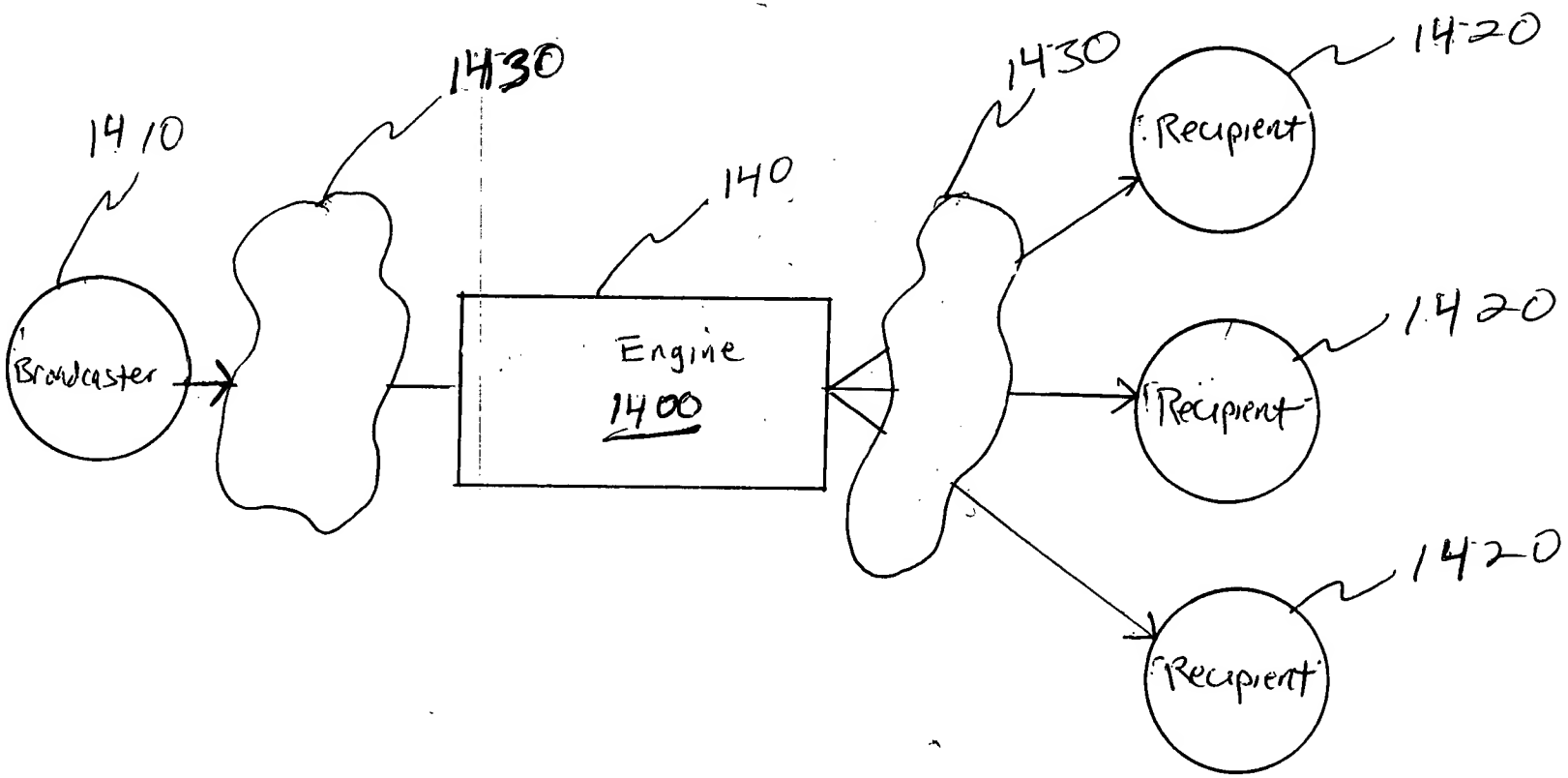
1410
1430
140
1430
1420
Broadcaster
Engine
1400
Recipient
1420
Recipient
1420
Recipient

Figure 14

T00280 "E82m660

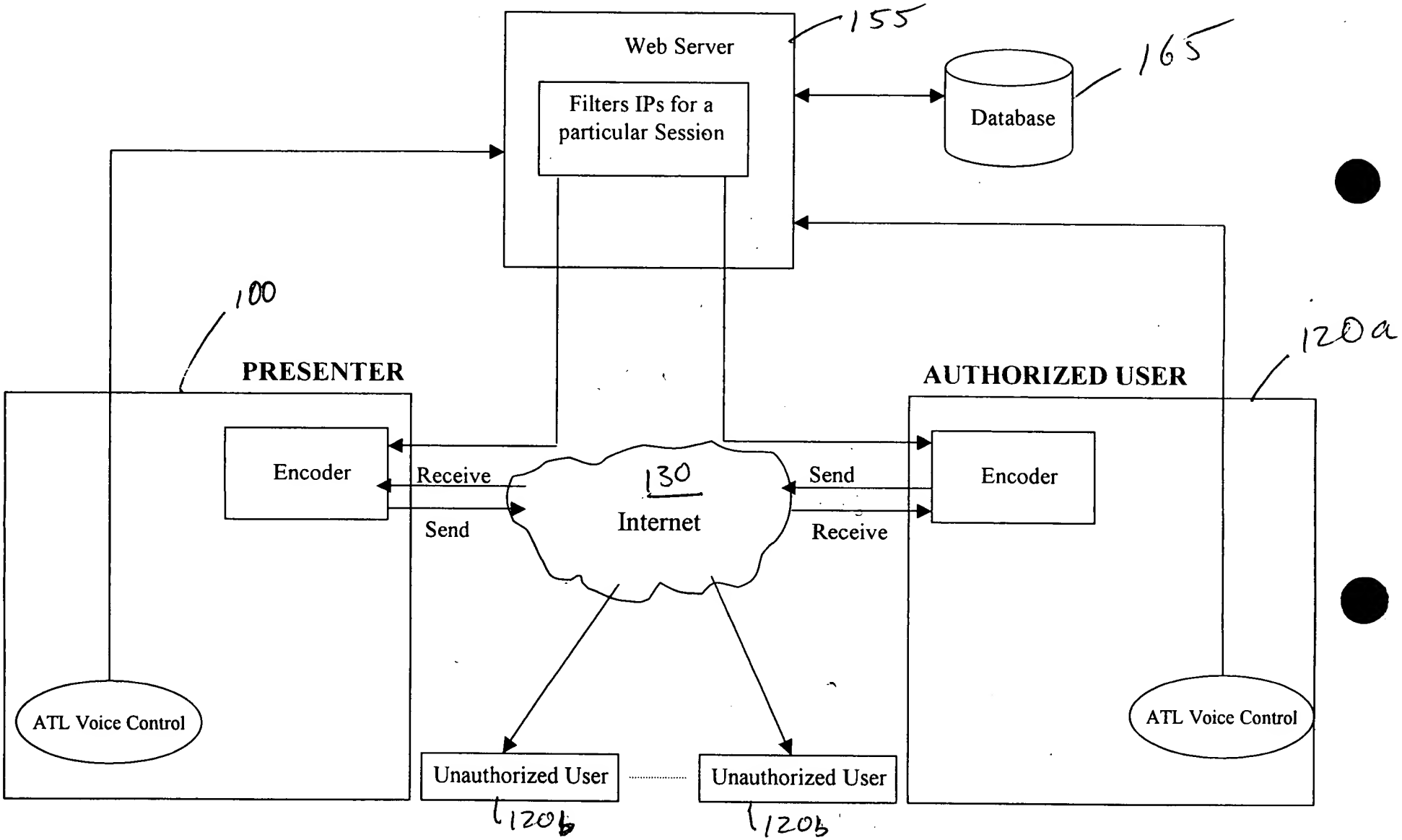

Figure 15

FOOE80 E82hh660

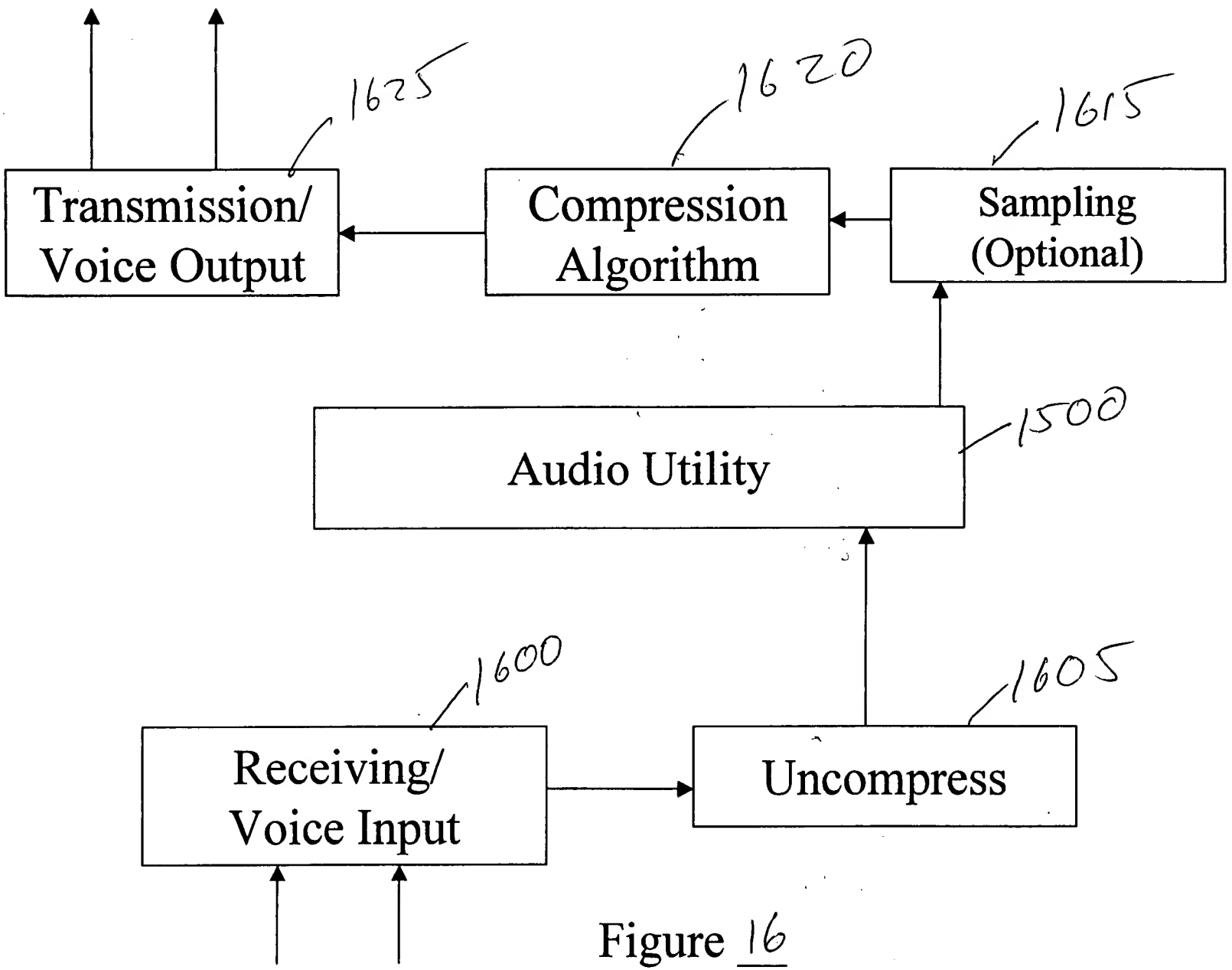

Figure 16

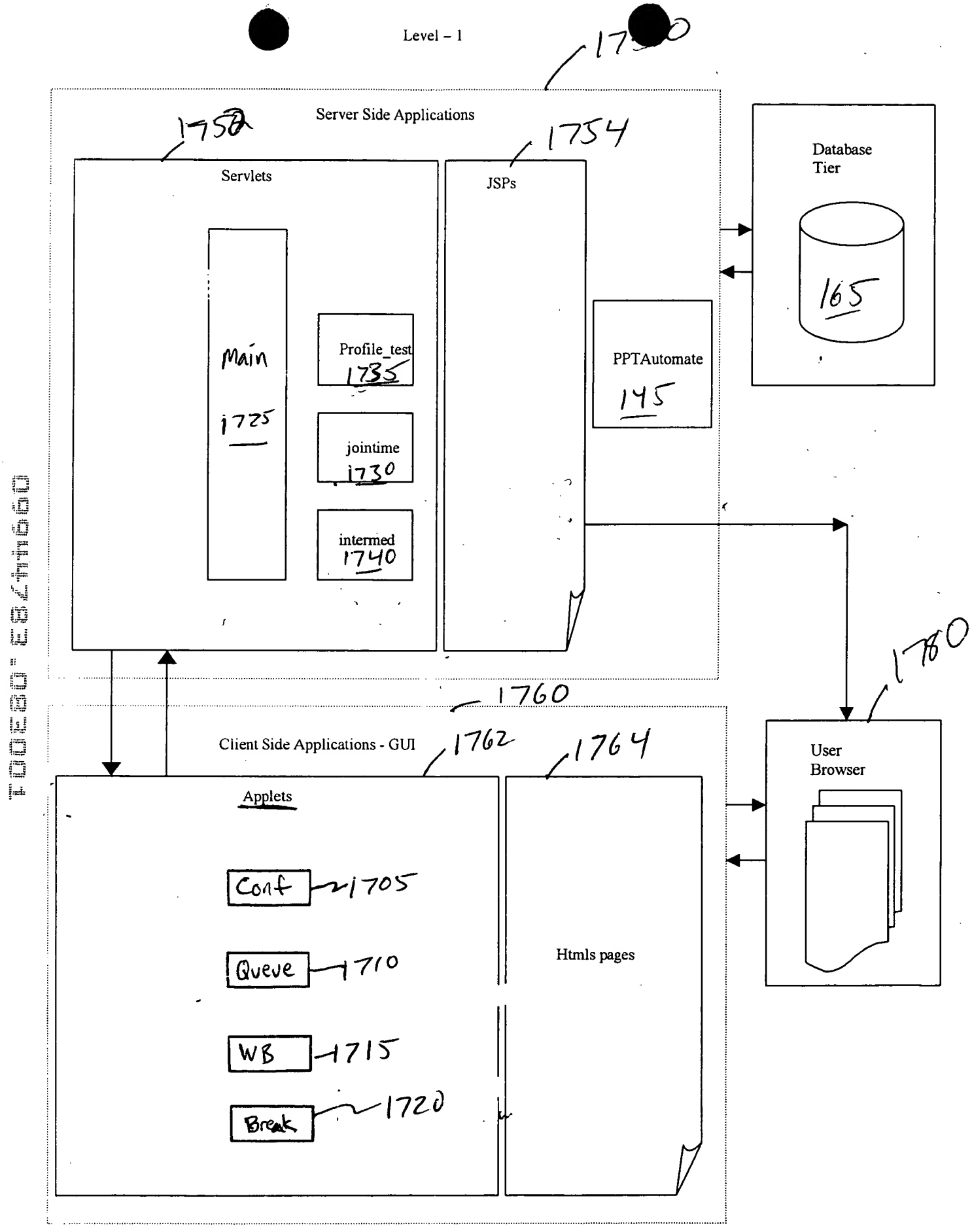
Level – 1
1750
Server Side Applications
1752
1754
Servlets
JSPs
Database Tier
165
Main
1725
Profile_test
1735
jointime
1730
intermed
1740
PPTAutomate
145
1760
1780
Client Side Applications - GUI
1762
1764
User Browser
Applets
Conf
1705
Queue
1710
WB
1715
Break
1720
Htmls pages

Figure 17a

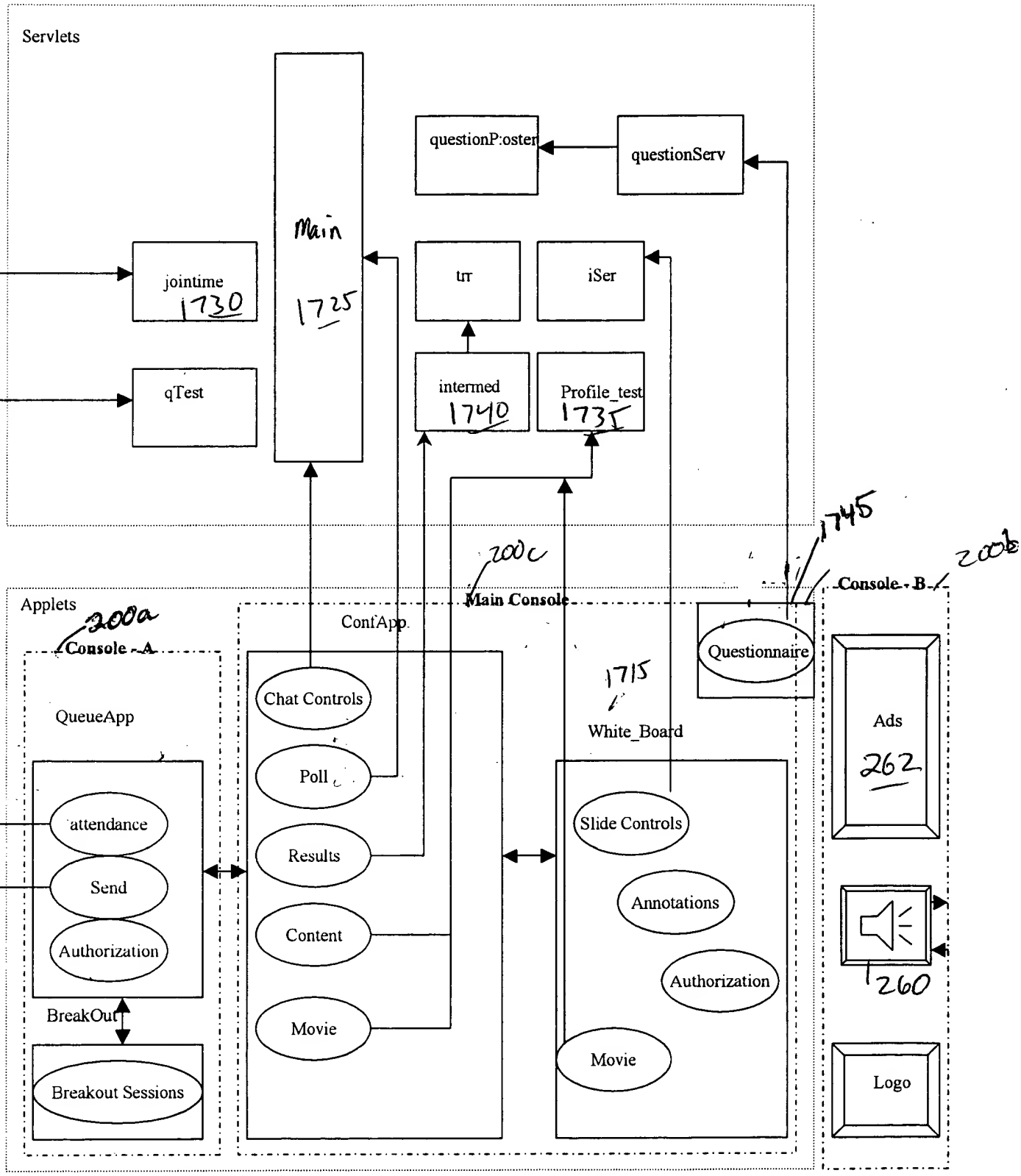
Servlets
Main
1725
questionP:oster
questionServ
jointime
1730
trr
iSer
qTest
intermed
1740
Profile_test
1735
1745
200c
200b
Applets
200a
Console - A
Main Console
ConfApp
Console - B
Questionnaire
QueueApp
Chat Controls
1715
White_Board
Ads
262
Poll
attendance
Results
Slide Controls
Send
Annotations
Content
Authorization
Authorization
BreakOut
Movie
Movie
Breakout Sessions
260
Logo

Figure 175

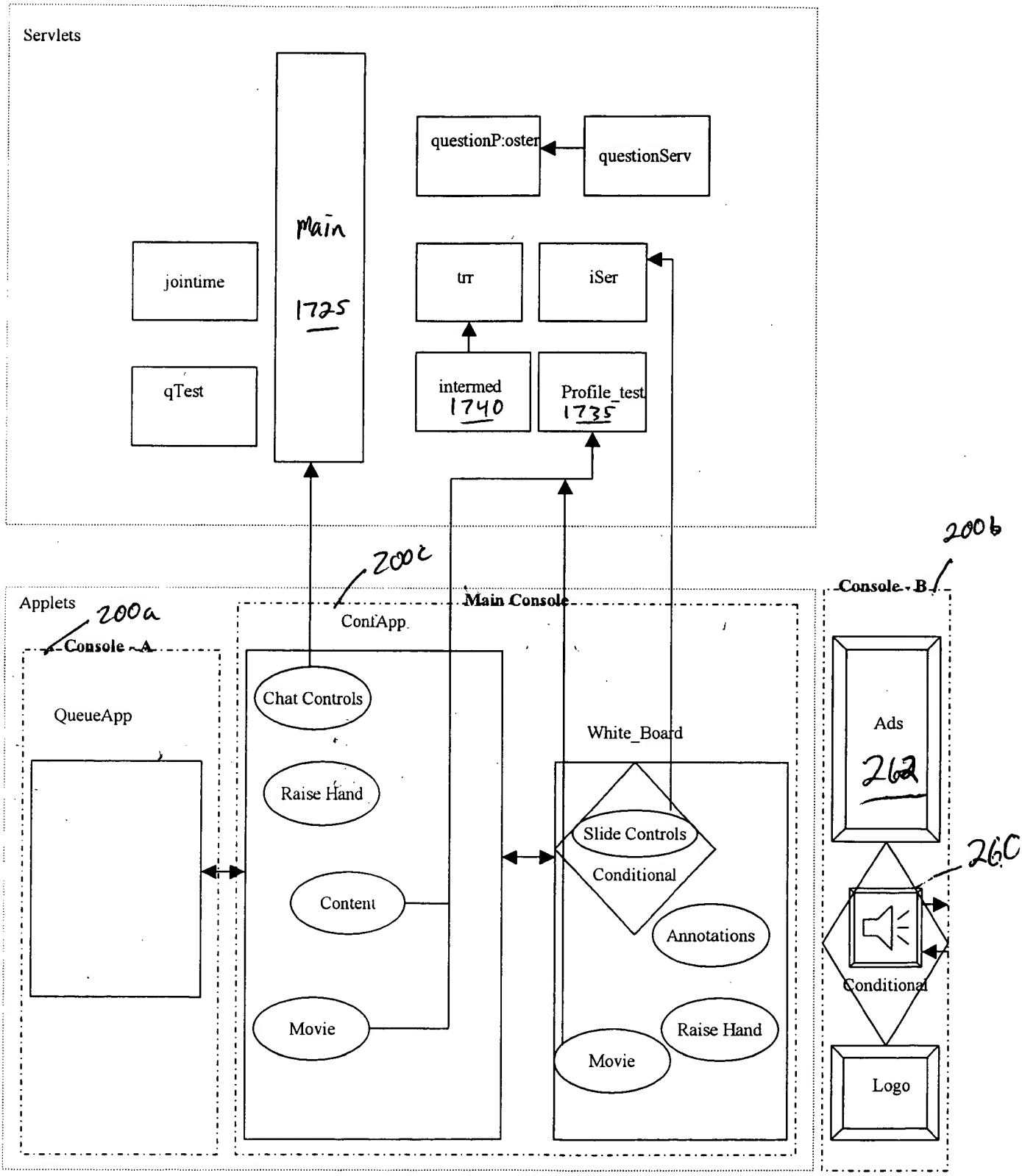
Servlets
jointime
qTest
Main
1725
questionPoster
questionServ
trr
iSer
intermed
1740
Profile_test
1735
200b
200c
Applets
200a
Console - A
QueueApp
ConfApp
Main Console
Chat Controls
Raise Hand
Content
Movie
White_Board
Slide Controls
Conditional
Annotations
Raise Hand
Movie
Console - B
Ads
262
26C
Conditional
Logo

Figure 17c

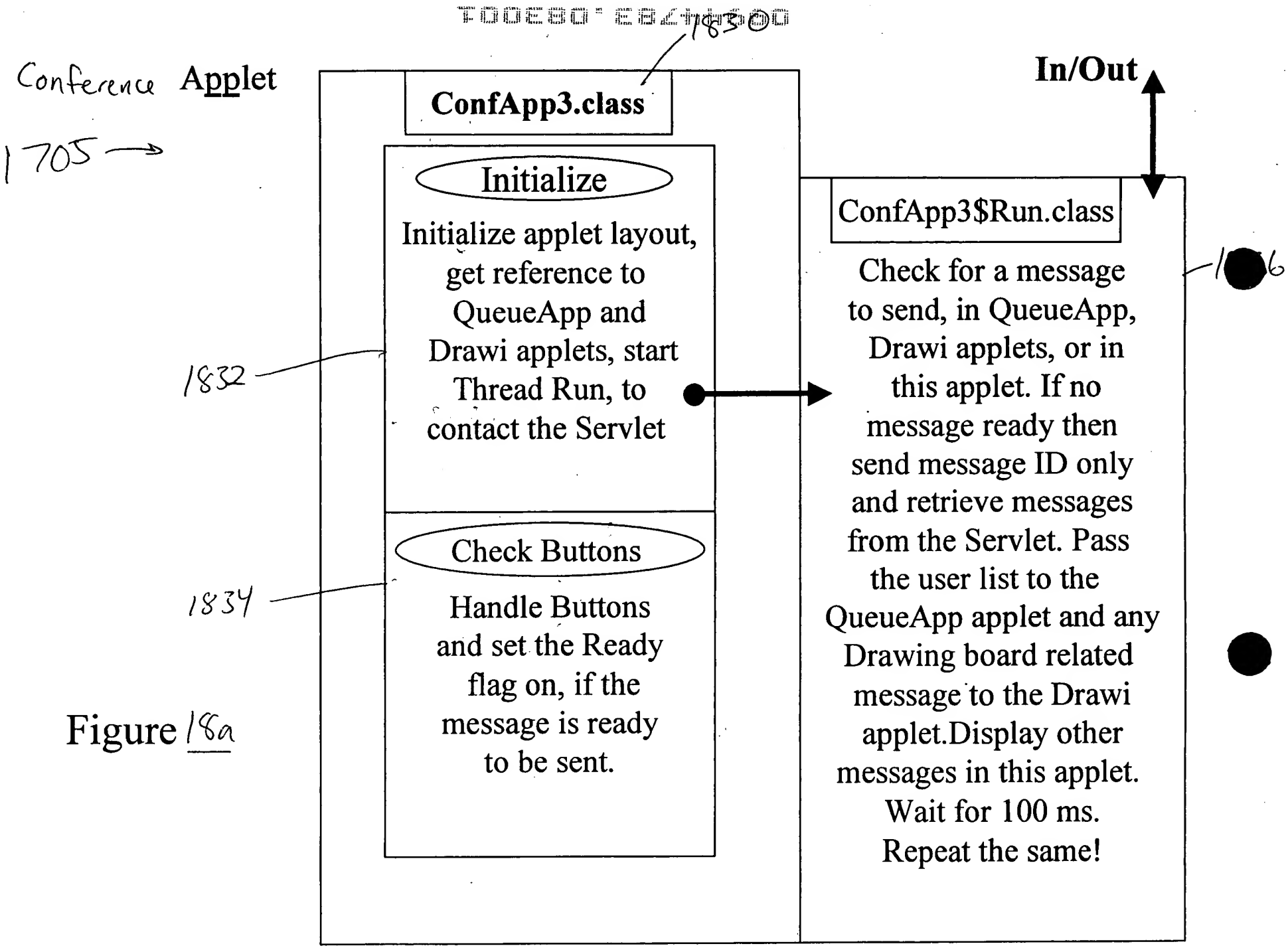
Conference Applet
1705
ConfApp3.class
1830
In/Out
Initialize
Initialize applet layout, get reference to QueueApp and Drawi applets, start Thread Run, to contact the Servlet
1832
Check Buttons
Handle Buttons and set the Ready flag on, if the message is ready to be sent.
1834
ConfApp3$Run.class
Check for a message to send, in QueueApp, Drawi applets, or in this applet. If no message ready then send message ID only and retrieve messages from the Servlet. Pass the user list to the QueueApp applet and any Drawing board related message to the Drawi applet.Display other messages in this applet. Wait for 100 ms. Repeat the same!

Figure 18a

F00280 E82m660

Qveve Applet

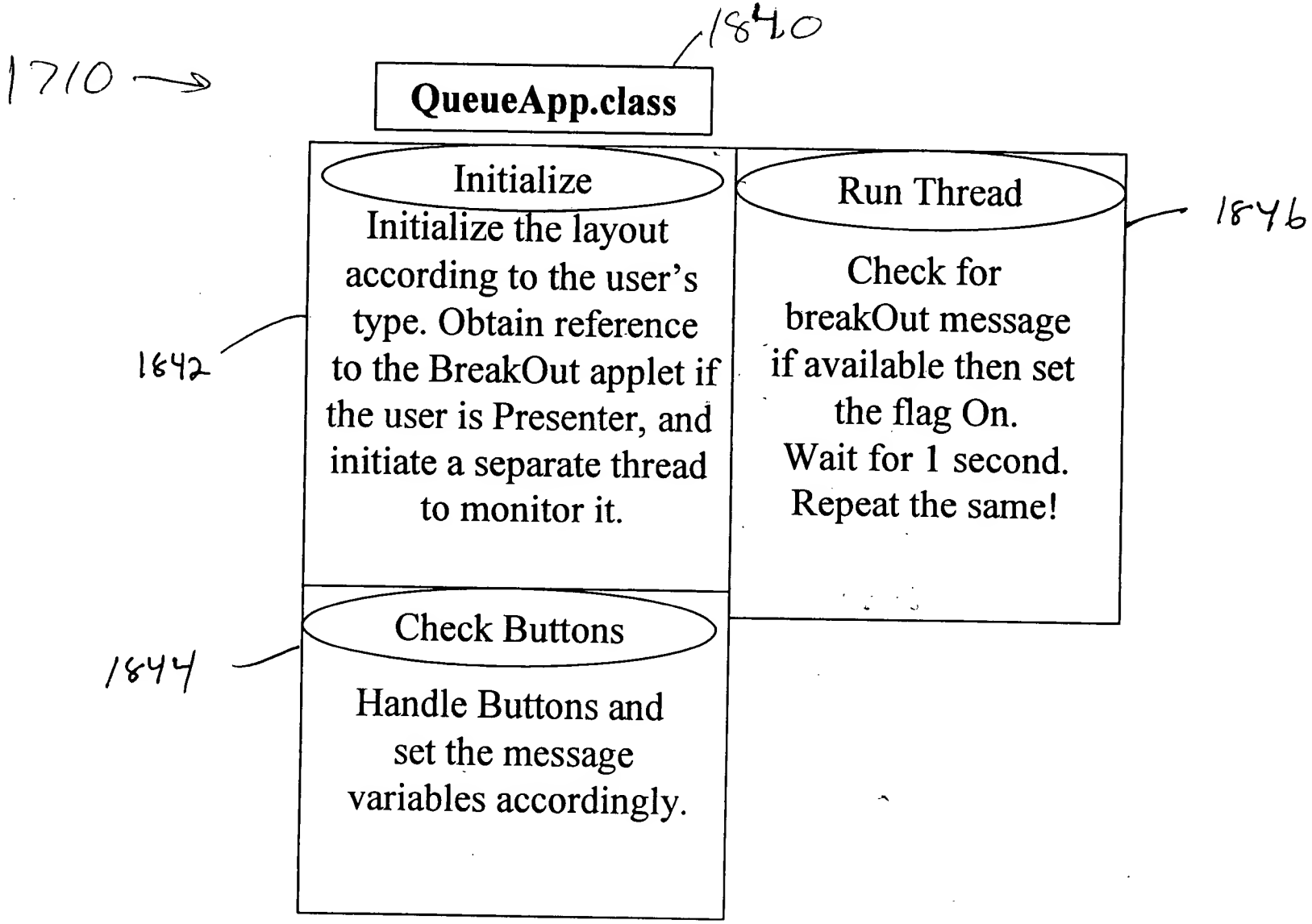

Figure 186

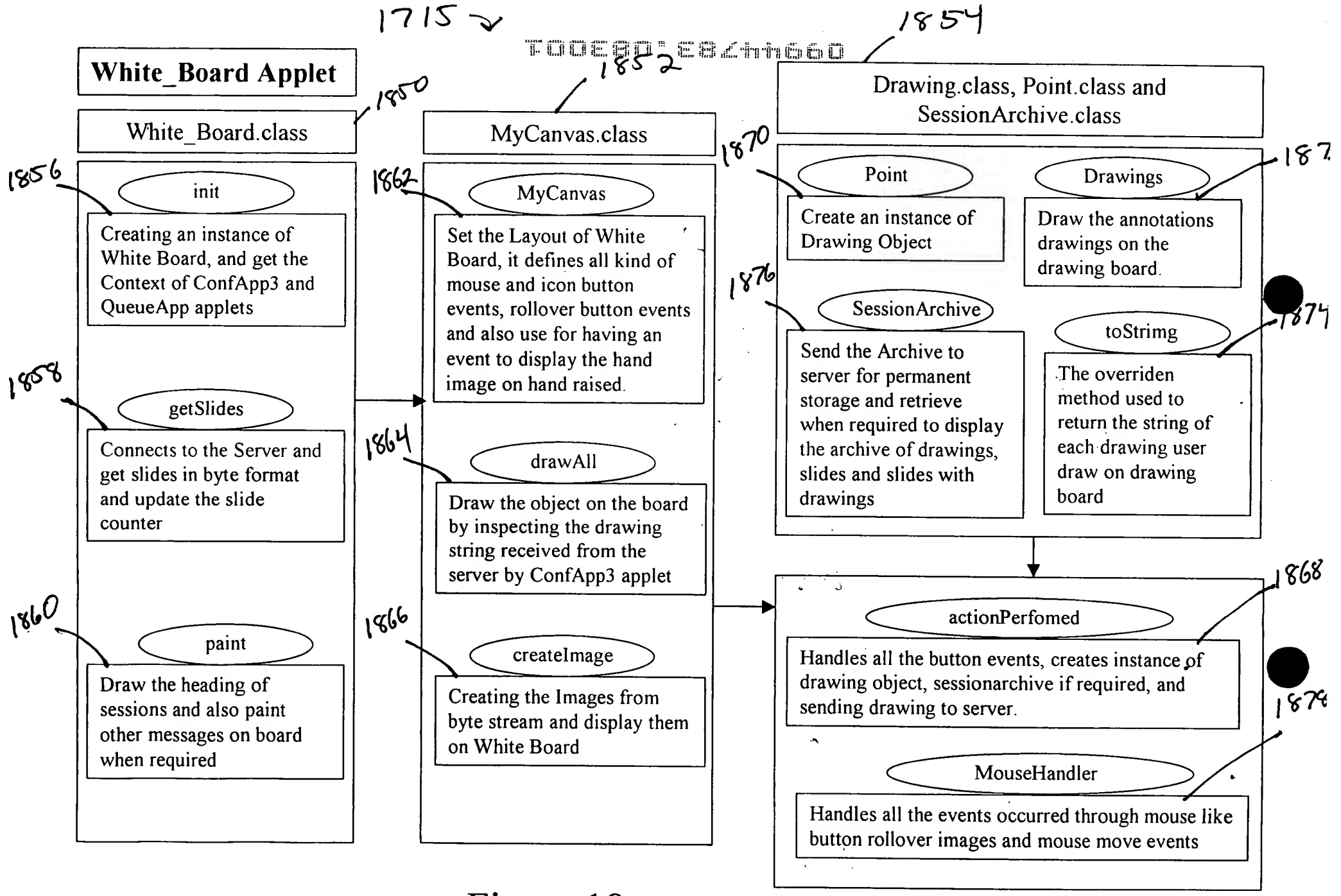
1715
1854
1852
1850
White_Board Applet
White_Board.class
MyCanvas.class
Drawing.class, Point.class and SessionArchive.class
1856
init
Creating an instance of White Board, and get the Context of ConfApp3 and QueueApp applets
1858
getSlides
Connects to the Server and get slides in byte format and update the slide counter
1860
paint
Draw the heading of sessions and also paint other messages on board when required
1862
MyCanvas
Set the Layout of White Board, it defines all kind of mouse and icon button events, rollover button events and also use for having an event to display the hand image on hand raised.
1864
drawAll
Draw the object on the board by inspecting the drawing string received from the server by ConfApp3 applet
1866
createImage
Creating the Images from byte stream and display them on White Board
1870
Point
Create an instance of Drawing Object
Drawings
Draw the annotations drawings on the drawing board.
1876
SessionArchive
Send the Archive to server for permanent storage and retrieve when required to display the archive of drawings, slides and slides with drawings
toStrimg
The overriden method used to return the string of each drawing user draw on drawing board
1868
actionPerfomed
Handles all the button events, creates instance of drawing object, sessionarchive if required, and sending drawing to server.
MouseHandler
Handles all the events occurred through mouse like button rollover images and mouse move events

Figure 18c

T00280 E84m560

1720

Breakout Applet

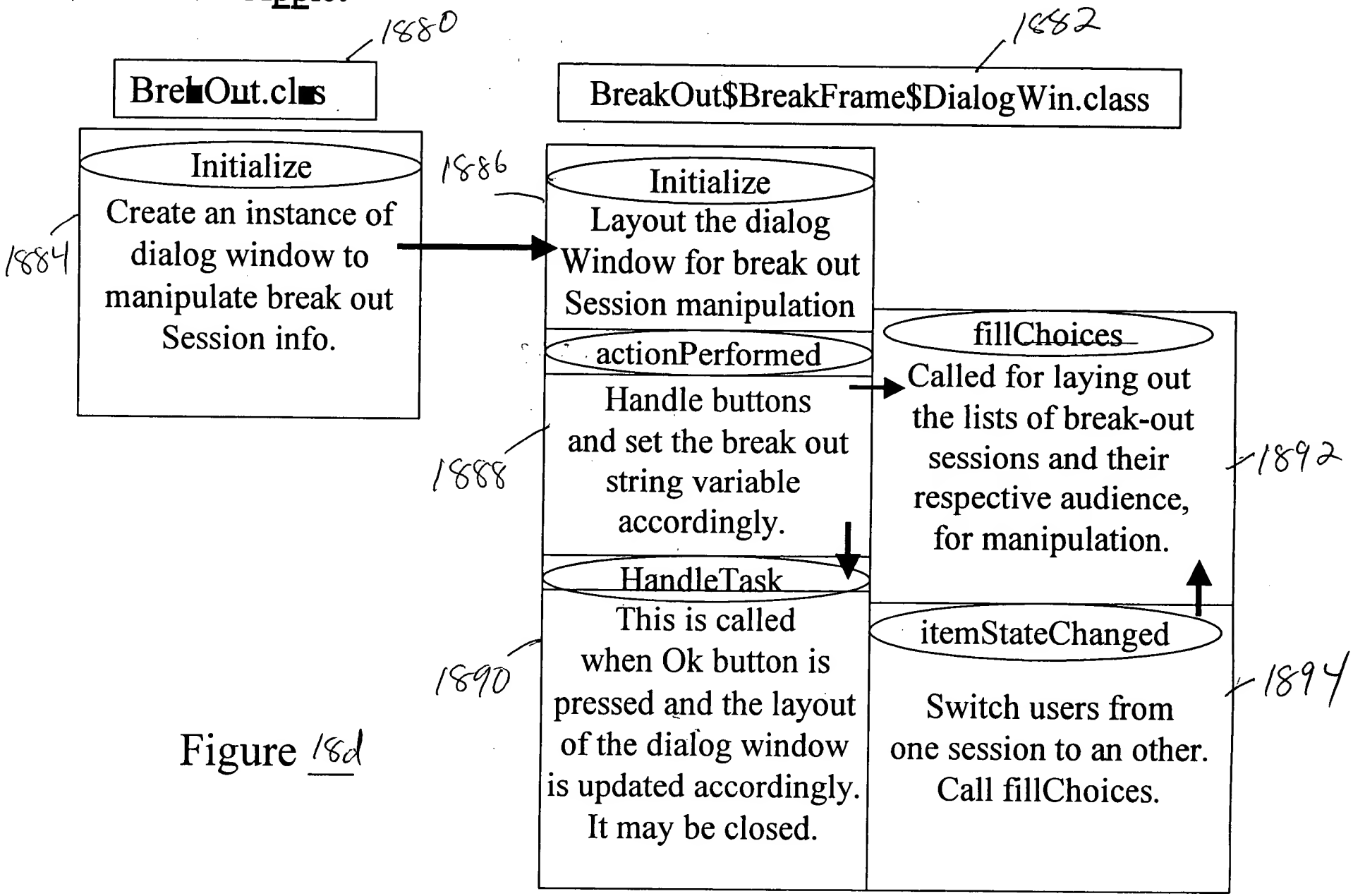

Figure 18d

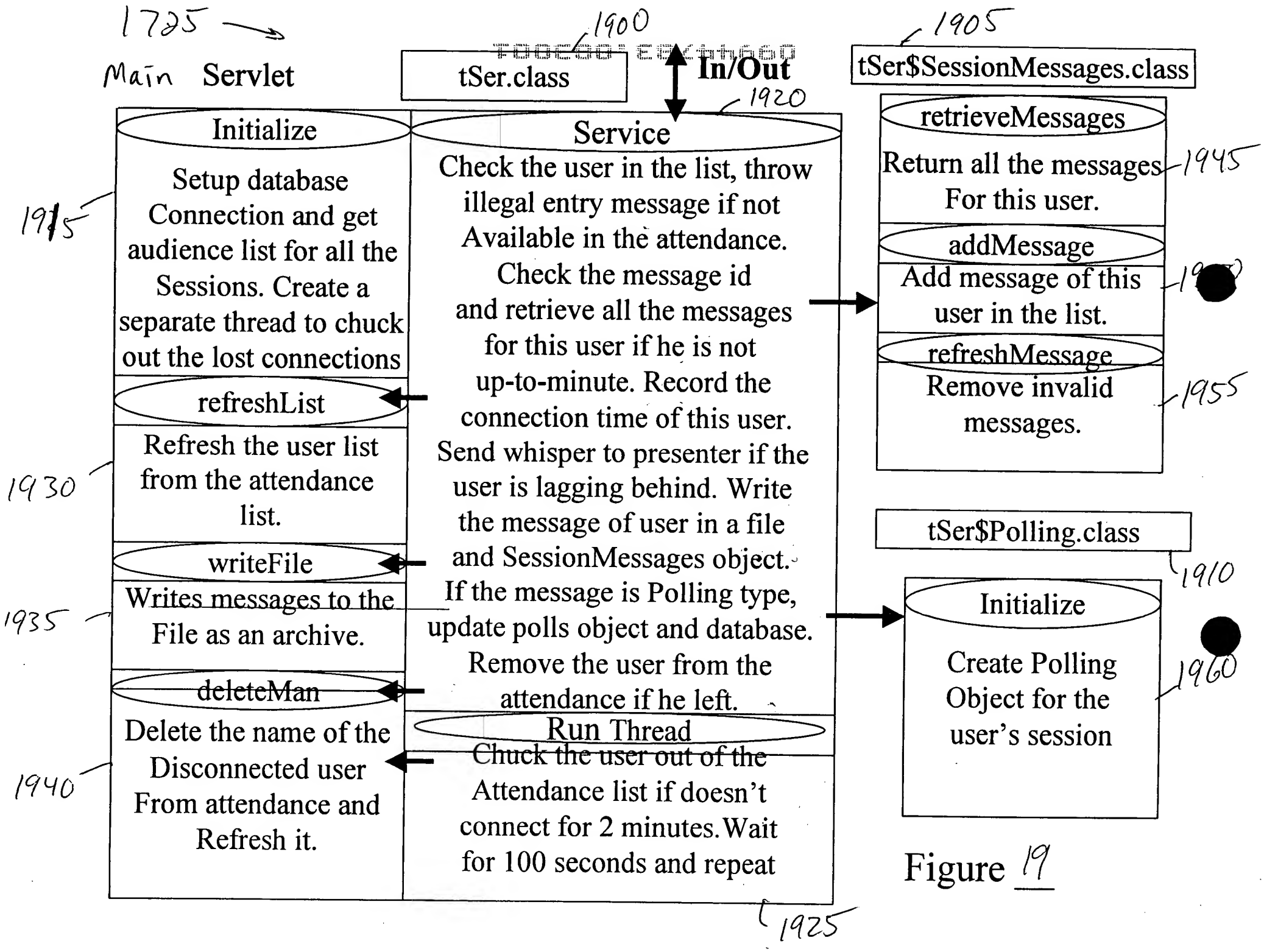
1725
Main Servlet
1900
tSer.class
In/Out
1905
tSer$SessionMessages.class
1920
Initialize
Setup database Connection and get audience list for all the Sessions. Create a separate thread to chuck out the lost connections
1915
refreshList
Refresh the user list from the attendance list.
1930
writeFile
Writes messages to the File as an archive.
1935
deleteMan
Delete the name of the Disconnected user From attendance and Refresh it.
1940
Service
Check the user in the list, throw illegal entry message if not Available in the attendance. Check the message id and retrieve all the messages for this user if he is not up-to-minute. Record the connection time of this user. Send whisper to presenter if the user is lagging behind. Write the message of user in a file and SessionMessages object. If the message is Polling type, update polls object and database. Remove the user from the attendance if he left.
Run Thread
Chuck the user out of the Attendance list if doesn't connect for 2 minutes. Wait for 100 seconds and repeat
1925
retrieveMessages
Return all the messages For this user.
1945
addMessage
Add message of this user in the list.
refreshMessage
Remove invalid messages.
1955
tSer$Polling.class
1910
Initialize
Create Polling Object for the user's session
1960

Figure 19

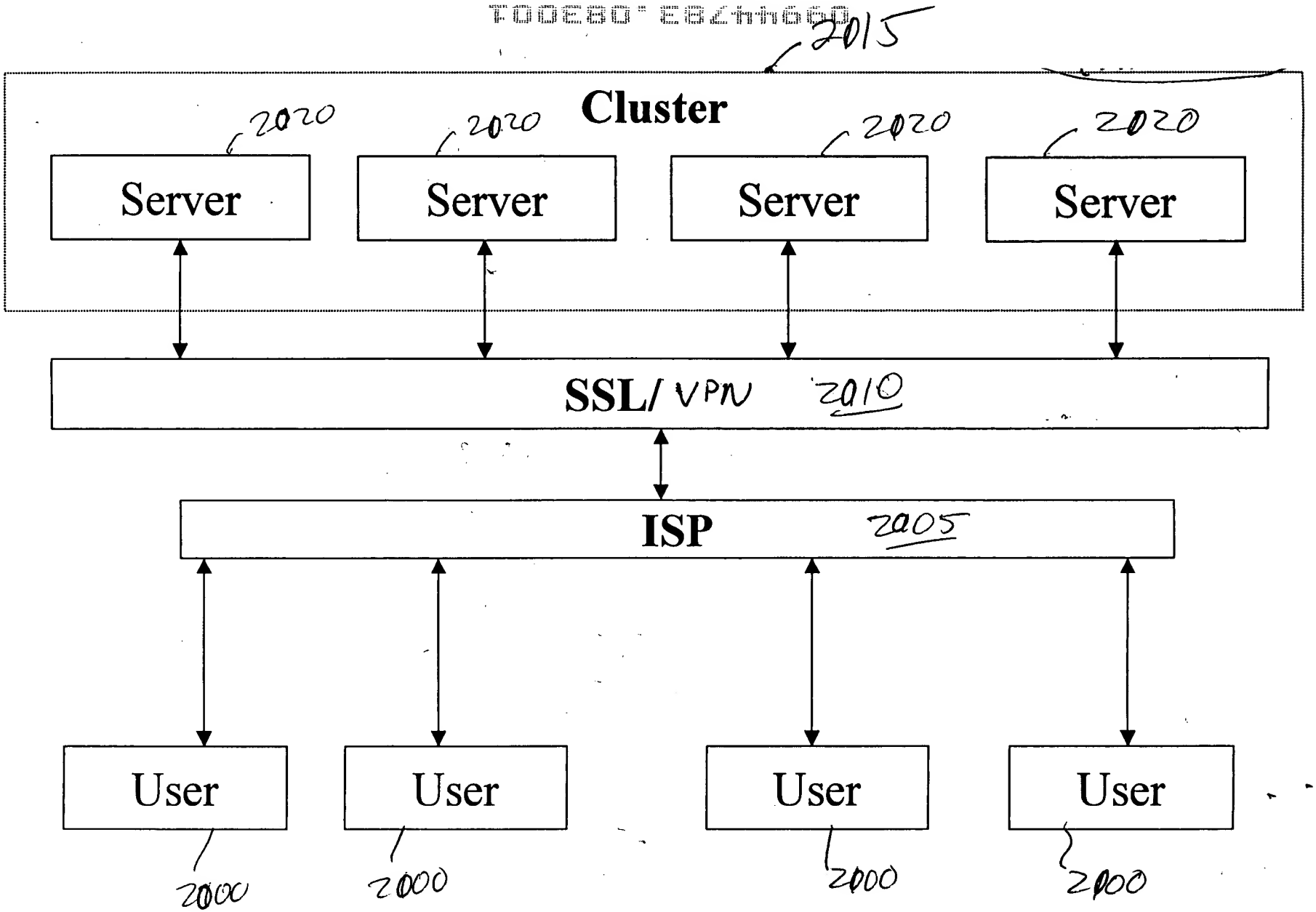
2015
Cluster
2020
Server
2020
Server
2020
Server
2020
Server
SSL/ VPN
2010
ISP
2005
User
2000
User
2000
User
2000
User
2000

Figure 20

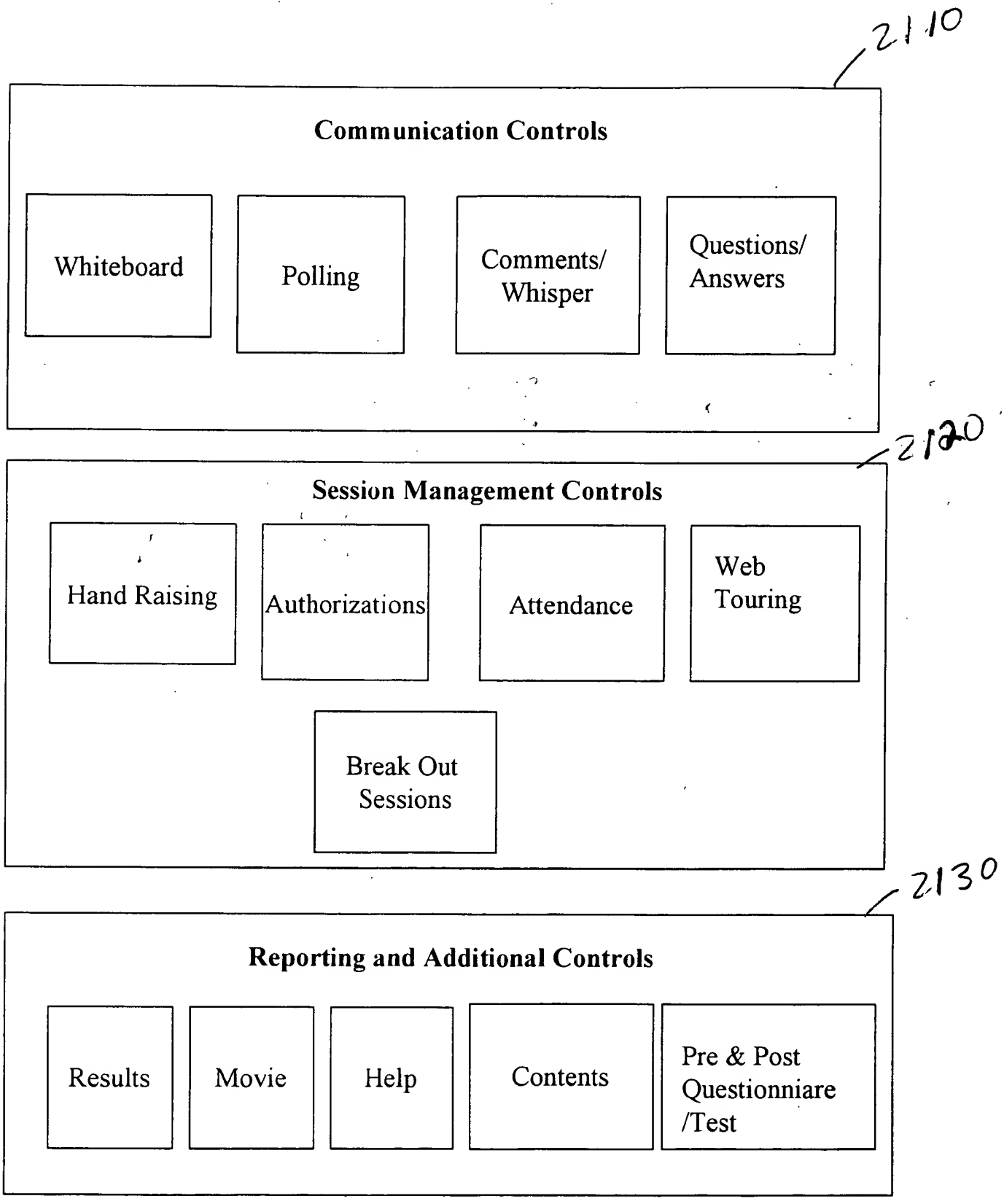
2110
Communication Controls
Whiteboard
Polling
Comments/ Whisper
Questions/ Answers
2120
Session Management Controls
Hand Raising
Authorizations
Attendance
Web Touring
Break Out Sessions
2130
Reporting and Additional Controls
Results
Movie
Help
Contents
Pre & Post Questionniare /Test

Figure 21

T00E80 E8Z4h660

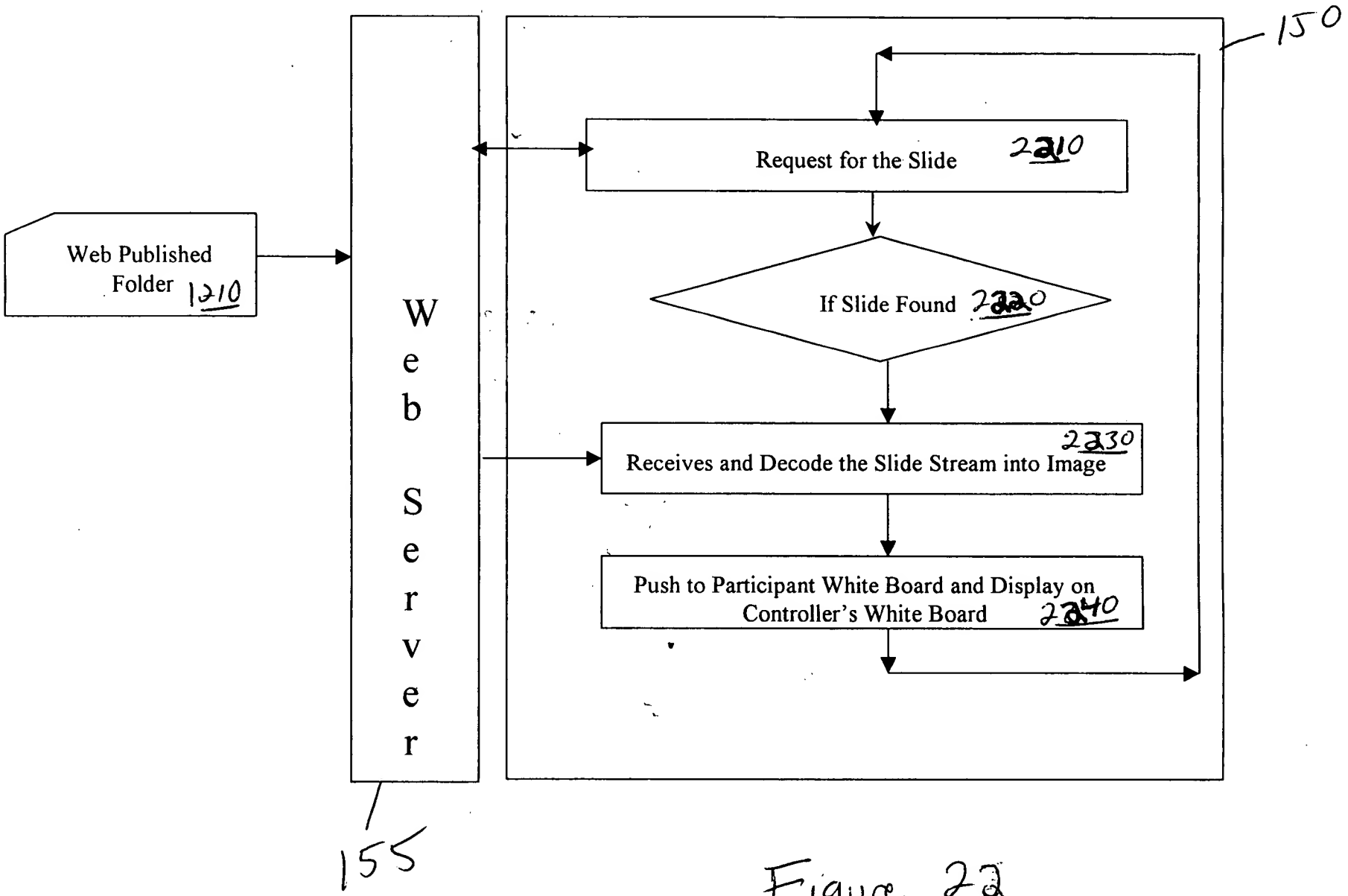

Figure 22